


- CS** Mini Parasep® Koncentrátor parazitů ve stolici  
**DE** Mini Parasep® Konzentrator für Stuhlparasiten  
**ES** Mini Parasep® Concentrador de parásitos fecales  
**FR** Mini Parasep® Concentrateurs de Parasites Fécaux  
**HR** Mini Parasep® Koncentratori crijevnih parazita bez otapala  
**IT** Mini Parasep® Concentratore di parassiti fecali  
**NL** Mini Parasep® Fecale Parasieten Concentrator  
**PL** Mini Parasep® System do zagęszczenia kału przy analizie parazytów  
**PT** Mini Parasep® Concentrador de parasitas fecais  
**SI** Mini Parasep® Koncentrator parazitov v blatu


**CE** CE marking (European directive 98/79/CE on in vitro diagnostic medical devices)  
 Označení CE (Evropská směrnice 98/79 / ES o diagnostických zdravotnických prostředcích in vitro)  
 CE-Kennzeichnung (EG-Richtlinie 98/79 / EG über In-vitro-Diagnostika)  
 Marcado CE (directiva europea 98/79 / CE sobre productos sanitarios para diagnóstico in vitro)  
 Marquage CE (directive européenne 98/79 / CE relative aux dispositifs médicaux de diagnostic in vitro)  
 CE označavanje (Evropska direktiva 98/79 / EZ o in vitro dijagnostičkim medicinskim uređajima)  
 Marcatura CE (Direttiva Europea 98/79 / CE relativa ai dispositivi medico-diagnostici in vitro)  
 CE-markering (Europese richtlijn 98/79 / EG betreffende de in vitro diagnostische medische hulpmiddelen)  
 Oznakowanie CE (dyrektywa europejska 98/79 / WE w sprawie wyrobów medycznych do diagnostyki in vitro)  
 Marcação CE (directiva europeia 98/79 / CE relativa aos dispositivos médicos de diagnóstico)  
 Oznaka CE (Evropska direktiva 98/79 / ES o in vitro diagnostičnih medicinskih pripomočkih)

**IVD** For in vitro diagnostic use  
 K diagnostickému použití in vitro  
 Für in-vitro-Diagnostik  
 Para uso diagnóstico in vitro  
 Pour diagnostic in vitro  
 Za in vitro dijagnostičke svrhe  
 Per uso diagnostico in vitro  
 Voor in vitro diagnostisch gebruik  
 Do diagnostyki in vitro  
 Para uso diagnóstico in vitro  
 Za in vitro diagnostično uporabo


**REF** Catalogue number  
 Katalogové číslo  
 Katalognummer  
 Número de catálogo  
 Numéro de catalogue  
 Kataloški broj  
 Numero di catalogo  
 Catalogus nummer  
 Numer katalogowy  
 Número de catálogo  
 Kataloška številka

**LOT** Batch code  
 Kód šarže  
 Loskennzeichen  
 Código de lote  
 Code de lot  
 Serija broj  
 Codice del lotto  
 Batchcode  
 Kod partii  
 Código do lote  
 Kodo serije

 Expiry date MM/YYYY  
 Datum ukončení platnosti MM / YYYY  
 Gültig bis MM / JJJJ  
 Fecha de caducidad MM / AAAA  
 Date d'expiration MM / AAAA  
 Datum isteka MM / GGGG  
 Data di scadenza MM / AAAA  
 Vervaldatum MM / YYYY  
 Termin ważności MM / YYYY  
 Data de validade MM / AAAA  
 Datum prenehanja veljavnosti MM / LLLL

 Storage temperature limitation  
 Omezení skladovací teplota  
 Lagertemperaturbegrenzung  
 Límite de temperatura  
 Limitation de la température de stockage  
 Ograničenje temperature skladištenja  
 Limitazione della temperatura di stoccaggio  
 Begrenzing bewaartemperatuur  
 Ograniczenie temperatury bagażu  
 Limitação de temperatura de armazenamento  
 Omejitev temperature za shranjevanje

 Manufacturer  
 Výrobce  
 Hersteller  
 Fabricante  
 Fabricant  
 Proizvođač  
 Fabbriante  
 Fabrikant  
 Producent  
 Fabricante  
 Proizvajalec

 Consult instruction for use  
 Konzultujte návod k použití  
 Consult Gebrauchsanweisung  
 Consulte las instrucciones de uso  
 Consultez Mode d'emploi  
 Posavjetujte se Naputak za primjenu  
 Consultare istruzioni per l'uso  
 Raadpleeg Gebruiksaanwijzing  
 Skonsultuj Instrukcja użycia  
 Consulte Instruções de uso  
 Consult Navodila za uporabo

# EN

See label for storage conditions and expiry date. Please adhere to the following guidelines when handling Mini Parasep®. To avoid cross contamination the Mini Parasep® device should remain closed at all times except when introducing the sample or when retrieving the final concentrated sample for examination.

## Sample Preparation

For Empty Mini Parasep®.

- 1A Unscrew lid.
- 1B Add 2.4ml of fixative.
- 1C Add one drop of surfactant (eg: Apacor Triton X solution) to the chamber.  
Alternatively, use reagent ready Mini Parasep®.
- 1D Introduce a level scoop of formed faecal sample (equivalent 0.5g) to the fixative using the spoon at the end of the Mini Parasep® filter. For liquid samples, add 2 level scoops (equivalent 1g) to the fixative. Add 1.0ml of Ethyl Acetate to the mixing chamber. Mix in thoroughly with the Mini Parasep® spoon. If the sample is hard, break it up with the end of the spoon.

## Emulsification

- 2 Seal Mini Parasep® by screwing in the filter/sedimentation cone unit. Vortex or shake to emulsify with the sedimentation cone pointing upwards.

## Centrifugation

- 3 Invert Mini Parasep® and centrifuge at 1200g for 3 minutes. Mini Parasep® fits all 15ml centrifuge buckets.

NOTE: To calculate the required RPM for any centrifuge

$$\text{RPM} = \sqrt{\frac{g}{1.12r}} \times 1000$$

RPM Rotor Speed in revs/min

g centrifugal force (max. 1000g)

r radius, horizontal distance between sedimentation cone tip and spindle centre measured in mm

## Examination

Open very slowly to avoid aerosol release.

- 4A Unscrew and discard the filter and mixing tube.
- 4B Pour off all the liquid above the sediment.
- 4C Pipette one drop of sediment onto a slide and cover with coverslip. Alternatively, follow laboratory SOP for slide preparation.

# CS

Podmínky skladování a expirace jsou uvedeny na nálepce. Při práci s Mini Parasep® dodržujte prosím následující návod. Abychom zabránili kontaminaci, musí Mini Parasep® koncentrátor zůstat po celou dobu uzavřený s výjimkou zavádění vzorku nebo když je koncentrovaný vzorek předán ke zkoumání.

## Příprava vzorku

Pro prázdný Mini Parasep®.

- 1A Odšroubujte víčko.
- 1B Přidejte 2,4 ml fixačního.
- 1C Jednu kapku surfaktantu (např. Apacor Triton X roztok) do míchacího prostoru.  
Případně použijte Mini Parasep® připravený k reagenici.
- 1D Přidejte zarovnanou odměрку vytvořeného vzorku stolice (ekvivalent 0,5 g) do fixačního prostředku pomocí lžice na konci filtru Mini Parasep®. U tekutých vzorků přidejte k fixativu 2 zarovnané odměrky (ekvivalent 1 g). Přidejte 1,0 ml ethyl acetátu do míchací komory. Důkladně promíchejte lžičkou Mini Parasep®. Pokud je vzorek tvrdý, rozlomte ho koncem lžice.

## Emulgace

- 2 Filtrační díl pevně sešroubujte dohromady se zásobníkem roztoku a krátce promíchejte.

## Centrifugace

- Vložte do centrifugy a centrifugujte při 1200 g po dobu 3 minut.
- 3 Pro Mini Parasep® můžete použít všechny 15 ml adaptéry.

Poznámka: Pro výpočet RPM použijte následující vzorec

$$\text{RPM} = \sqrt{\frac{g}{1.12r}} \times 1000$$

RPM Otáčky rotoru

g Odstředivá síla centrifugy (max.1000g)

r Rádus, horizontální vzdálenost mezi koncem sedimentační zkumavky a středem osy, měřeno v mm

## Zkoumání vzorku

Otevřete jej velmi pomalu, aby se zabránilo uvolňování aerosolu.

- 4A Vyjměte Mini Parasep®, odšroubujte filtrační díl a zlikvidujte (tento díl zůstává uzavřen).
- 4B Vylijte veškerou kapalinu nad usazeninou.
- 4C Napipetujte jednu kapku sedimentu na sklíčko mikroskopu a zakryjte krycím sklíčkem. Alternativně postupujte podle laboratorních standardních postupů pro přípravu mikroskopických sklíček.

# DE

Haltbarkeit und Aufbewahrung : Siehe Packungsaufdruck Bitte beim Verwenden von Mini Parasep® die nachfolgenden Anweisungen beachten. Um Kreuz-kontamination zu vermeiden, sollte das Mini Parasep® Röhrchen, außer bei Probenzugabe und Entnahme des Sediments zur mikroskopischen Untersuchung, immer verschlossen bleiben.

## Probenvorbereitung

Für leere Mini Parasep®.

- 1A Deckel abschrauben.
- 1B 2,4ml Fixierlösung zugeben.
- 1C Apacor Triton X Lösung (1:20 Verdünnung) zugeben.

Gebruik als alternatief reagensklare Mini Parasep®.

- 1D Geben Sie mit dem Löffel am Ende des Mini Parasep®-Filters einen gestrichenen Messlöffel der gebildeten Kotprobe (entspricht 0,5 g) in das Fixiermittel. Geben Sie bei flüssigen Proben 2 gestrichene Messlöffel (entsprechend 1 g) zum Fixiermittel hinzu. Geben Sie 1,0 ml Ethylacetat in die Mischkammer. Mit dem Mini Parasep® Löffel gründlich einmischen. Wenn die Probe hart ist, brechen Sie sie mit dem Ende des Löffels auf.

## Emulgieren

- 2 Den Filterteil mit dem Sedimentationsröhrchen des Mini Parasep® mit dem Probenröhrchen fest zusammenschrauben. Die Probe gut mischen mittels Votexmischer bzw. kräftig schütteln, bis eine homogene Emulsion entsteht. Es ist wichtig, daß der Konusboden des Sedimentationsröhrchen nach oben zeigt.

## Zentrifugation

- 3 Mini Parasep® mit dem konusförmigen, spitz zulaufenden Teil nach unten in die Zentrifuge stellen. 3 Minuten bei 1200xg zentrifugieren. Mini Parasep® passt in all gängigen 15ml Zentrifugenröhrchen-Aufsätze.

RPM-Berechnung für all gängigen Zentrifugen

$$\text{RPM} = \sqrt{\frac{g}{1.12r}} \times 1000$$

RPM Rotordrehzahl in Umdrehungen/min

g Zentrifugalkraft (max 1000g)

r Radius, Abstand zw. dem unteren Ende des konischen Röhrchen und der Zentrifugenspindel, in mm

## Probenuntersuchung

Mini Parasep® sehr langsam öffnen, um eine Aerosol-Freisetzung zu vermeiden

- 4A Mini Parasep® aufdrehen und den Filterteil entsorgen (dieser Teil sollte beim Aufdrehen verschlossen bleiben).
- 4B Den Überstand vorsichtig abgießen.
- 4C Einen Tropfen Sediment auf einen Objektträger pipettieren und mit Deckglas bedecken. Alternativ folgen Sie den Laborstandard für die Präparation des Objektträgers.

# ES

Mirar la etiqueta para ver condiciones de almacenaje y fecha caducidad. Cuando se manipule Mini Parasep® se ruega seguir las instrucciones. Para evitar contaminaciones cruzadas el Mini Parasep® ha de permanecer siempre cerrado, excepto cuando se introduce la muestra o cuando se extrae la preparación final con objeto de ser examinada.

## Preparación de la muestra

Para Mini Parasep® vacío.

- 1A Desenroscar el tapón.
- 1B Añadir 2.4 ml de fijador.
- 1C Si se requiere una gota de surfactante (solución Apacor Triton X) para emulsionar.

Como alternativa, utilice Mini Parasep® preparado para reactivos.

- 1D Introduzca una cucharada al ras de la muestra fecal formada (equivalente a 0,5 g) en el fijador utilizando la cuchara al final del filtro Mini Parasep®. Para muestras líquidas, agregue 2 cucharadas rasas (equivalente a 1 g) al fijador. Agregue 1,0 ml de acetato de etilo a la cámara de mezcla. Mezclar bien con la cuchara Mini Parasep®. Si la muestra es dura, rómpala con el extremo de la cuchara.

## Emulsionado

- 2 Enroscar la cámara de mezcla con la unidad de filtro/cono de sedimentación. Vortear o agitar para emulsionar con el cono de sedimentación hacia arriba.

## Centrifugación

- 3 Invertir el Mini Parasep® y centrifugar a 1200g durante 3 minutos. El Mini Parasep® se adecúa a todas las cestas de centrifugación de 15 ml.

Nota: Para calcular la RPM requeridas para cualquier centrifuga

$$\text{RPM} = \sqrt{\frac{g}{1.12r}} \times 1000$$

RPM Velocidad del rotor

g Fuerza centrífuga (max 1000g)

r Radio, distancia entre la punta del cono y el centro del rotor medida en mm.

## Examen

Abrir lentamente para evitar la salida de aerosoles

- 4A Desenrosque y elimine la cámara de mezcla junto cone el filtro.
- 4B Decante el liquido sobrenadante del sedimento.
- 4C Pipetee una gota de sedimento en un portaobjetos y cúbralo con un cubreobjetos. Alternativamente, siga el Procedimiento de funcionamiento estándar del laboratorio para la preparación de portaobjetos.

# FR

Voir étiquette pour stockage et date d'expiration.

Respectez les consignes suivantes lorsque vous manipulez le Mini Parasep®. Pour éviter la contamination croisée, le Mini Parasep® devrait rester fermé, sauf lors de la saisie de l'échantillon ou quand vous prenez l'échantillon concentré final pour l'examen.

## Préparation de l'échantillon

Pour Mini Parasep® vide

- 1A Dévissez le bouchon.
- 1B Ajoutez 2,4ml de fixateur .
- 1C Et ajoutez une goutte de surfactant (par ex: solution Apacor Triton) pour émulsifier.

Alternativement, utilisez le Mini Parasep® prêt à réagir.

- 1D Introduire une cuillère rase d'échantillon fécal formé (équivalent 0,5g) dans le fixateur à l'aide de la cuillère à l'extrémité du filtre Mini Parasep®. Pour les échantillons liquides, ajouter 2 cuillères rases (équivalent 1g) au fixateur. Ajouter 1,0 ml d'acétate d'éthyle dans la chambre de mélange. Bien mélanger avec la cuillère Mini Parasep®. Si l'échantillon est dur, cassez-le avec le bout de la cuillère.

## Émulsification

- 2 Scellez le Mini Parasep® en le vissant dans le compartiment de cône de filtrage. Tourbillonnez ou secouez pour émulsionner avec le cône de sédimentation pointé vers le haut.

## Centrifugation

- 3 Retournez le Mini Parasep® et centrifugez le à 1200g pendant 3 minutes. Mini Parasep® s'adapte à tous les seaux de centrifugeuses 15ml.

RAPPEL: Calcul du nombre de tours par minute en fonction du rayon de la centrifugeuse.

$$\text{RPM} = \sqrt{\frac{g}{1.12r}} \times 1000$$

RPM tours par minute.

g accélération (max.1000g)

r rayon de la centrifugeuse en mm (depuis l'axe central jusqu'à la pointe du cône)

## Examination

Débloquer délicatement pour dégazer (éther!!) puis ouvrir le tube.

- 4A Dévissez et jetez le filtre et le tube de mélange.
- 4B Décantez tout le liquide au-dessus du sédiment.
- 4C Pipeter une goutte de sédiment sur une lame de microscope et couvrir avec une lamelle couvre-objet. Vous pouvez également suivre la procédure opératoire standard du laboratoire pour la préparation des lames de microscope.

# HR

Pogledajte naljepnicu za uvjete čuvanja i rok valjanosti.

Molimo pridržavajte se sljedećih smjernica prilikom rukovanja Mini Parasep®-om. Kako biste izbjegli kros-kontaminaciju Mini Parasep® bi trebao biti zatvoren cijelo vrijeme osim kada stavljate uzorak ili prilikom uzimanja krajnjeg koncentriranog uzorka za mikroskopiranje.

## Priprema Uzorka

Za prazan Mini Parasep®.

- 1A Otvorite poklopac.
- 1B Dodajte 2.4 ml fiksatora.
- 1C Dodajte Apacor Triton X otopina u komoru za miješanje.

Alternativno, koristite Mini Parasep® spreman za reagens.

- 1D Unesite ravnu mjericu formiranog uzorka izmeta (ekvivalentno 0,5 g) u fiksativ koristeći žlicu na kraju Mini Parasep® filtera. Za tekuće uzorke dodajte 2 mjerene mjerice (ekvivalentno 1 g) fiksatoru. Dodajte 1,0 ml etil acetata u komoru za miješanje. Temeljito promiješajte Mini Parasep® žlicom. Ako je uzorak tvrd, razbijte ga krajem žlice.

## Emulgiranje

- 2 Zatvorite Mini Parasep® tako da umetnete filter / sedimentacijski konus. Vorteksirajte ili protresite kako bi emulgirali sa sedimentacijskim konusom prema gore.

## Centrifugiranje

- 3 Okrenite Mini Parasep® i centrifugirajte na 1200 g 3 minute. Mini Parasep® odgovara svim 15 ml adapterima za centrifuge.

NAPOMENA: Preračunavanje RPM Za Svaku Centrifugu

$$\text{RPM} = \sqrt{\frac{g}{1.12r}} \times 1000$$

RPM brzina rotora u okr./min.

g centrifugalna sila (max. 1000g)

r radijus, horizontalna udaljenost između sedimentacijskog konusa i centra vrtnje mjerena u mm

## Pregled

Otvorite vrlo polagano da biste izbjegli oslobađanje aerosola.

- 4A Otvorite i bacite filter i komoru za miješanje.
- 4B Odlijte svu tekućinu iznad sedimenta.
- 4C Pipetirajte jednu kapljicu sedimenta na mikroskopski klizač i pokrijte pokrivačem. Alternativno, slijedite laboratorijske standardne postupke za pripremu mikroskopa.

# IT

Leggere le indicazioni dell'etichetta su conservazione e data di scadenza. Si prega di seguire le seguenti avvertenze quando si utilizza il kit Mini Parasep®. Per evitare cross-contaminazioni il concentratore Mini Parasep® dovrebbe rimanere sempre chiuso tranne quando si debba introdurre il campione o quando debba essere recuperato il campione dopo la concentrazione (sedimento) per la successiva analisi.

## Preparazione del campione

Per Mini Parasep® vuoto.

- 1A Svitare il tappo.
- 1B Aggiungere 2,4 ml di fissativo.
- 1C Se richiesto, aggiungere una goccia di surfattante (es. soluzione Apacor Triton X) per emulsionare.

In alternativa, utilizzare Mini Parasep® pronto per il reagente.

- 1D Introdurre un misurino raso di campione fecale formato (equivalente a 0,5 g) nel fissativo utilizzando il cucchiaino all'estremità del filtro Mini Parasep®. Per i campioni liquidi, aggiungere 2 misurini rasi (equivalente a 1 g) al fissativo. Aggiungere 1,0 ml di acetato di etile nella camera di miscelazione. Mescolare accuratamente con il cucchiaino Mini Parasep®. Se il campione è duro, romperlo con l'estremità del cucchiaino.

## Omogenizzazione

- 2 Chiudere ermeticamente il Mini Parasep® avvitando sul flacone di raccolta il cono di sedimentazione connesso con il filtro. Agitare a mano o con il vortex con il cono di sedimentazione rivolto verso l'alto.

## Centrifugazione

- 3 Invertire il Mini Parasep® e centrifugare a 1200g per 3 minuti. Il Mini Parasep® si adatta a tutte le centrifughe con rotori per provette da 15 ml.

Nota: per tutti i tipi di centrifuga la conversione da g a RPM avviene tramite questa formula:

$$\text{RPM} = \sqrt{\frac{g}{1.12r}} \times 1000$$

RPM Velocità del rotore in giri/ minuto

g Forza centrifuga (massimo 1000g)

r Raggio, distanza orizzontale tra la punta del cono di sedimentazione e il centro del rotore misurato in mm

## Esame del campione

Aprire molto lentamente per evitare aerosol

- 4A Svitare la camera di miscelazione annessa al filtro ed eliminarla.
- 4B Eliminare il sovrantante.
- 4C Pipetta una goccia di sedimento su di un vetrino e coprire con coprioggetto. In alternativa, seguire la procedura operativa standard di laboratorio per la preparazione vetrino da microscopio.

# NL

Zie etiket voor bewaring en vervaldatum.

Houdt u aan de volgende richtlijnen bij het omgaan met Mini Parasep®. Om kruisbesmetting te voorkomen, moet de Mini Parasep® altijd gesloten blijven, behalve bij het invoeren van het staal of bij het ophalen van het definitieve geconcentreerde staal voor onderzoek.

## Staalvoorbereiding

Voor lege Mini Parasep®.

- 1A Schroeft u het deksel los.
- 1B Voeg 2,4 ml fixatief toe.
- 1C Voegt een druppel surfactant (bv: Apacor Triton X oplossing) om te emulgeren.

Gebruik als alternatief reagensklare Mini Parasep®.

- 1D Breng een afgestreken schep gevormd fecaal monster (equivalent van 0,5 g) aan op het fixeermiddel met behulp van de lepel aan het uiteinde van het Mini Parasep®-filter. Voeg voor vloeibare monsters 2 afgestreken maatscheppen (equivalent van 1 g) toe aan het fixeermiddel. Voeg 1,0 ml ethylacetaat toe aan de mengkamer. Goed mengen met de Mini Parasep® lepel. Als het monster hard is, verbreek het dan met het uiteinde van de lepel.

## Emulsificatie

- 2 Sluit de Mini Parasep® af door de filter unit in de sedimentatie kegel te schroeven. Schud met de sedimentatie kegel naar boven gericht om te emulgeren.

## Centrifugatie

- 3 Keer de Mini Parasep® om en centrifugeer aan 1200g gedurende drie minuten. Mini Parasep® past op alle 15 ml centrifuges.

Voor het berekenen van de benodigde RPM voor een centrifuge

$$\text{RPM} = \sqrt{\frac{g}{1.12r}} \times 1000$$

RPM Rotor snelheid in toeren per minuut

g Centrifugale kracht (maximaal 1000g)

r Radius, horizontale afstand tussen centrum van de centrifuge en de tip van de buis, gemeten in mm.

## Onderzoek

Open de buis langzaam om aerosol vorming te voorkomen.

- 4A Schroef los en gooi de mengkamer en filter weg.
- 4B Giet alle vloeistof weg die zich boven het sediment bevindt.
- 4C Pipet een druppel sediment op een microscopglaasje en bedek met dekglasje. Alternatief volg laboratorium standaard werkprocedure voor microscopglaasje bereiden.



# PL

Warunki przechowywania oraz data ważności zestawu na etykiecie. Proszę uważnie przeczytać instrukcję wykonania oznaczenia (Mini Parasep®) a następnie postępować z jej zaleceniami. Aby uniknąć przypadkowego zanieczyszczenia fiolka powinna być zamknięta przez cały czas przechowywania. Fiolkę Mini Parasep® otwieramy podczas pobierania próbki oraz podczas analizy zatężonego materiału biologicznego.

## Przygotowanie próbki

Do pustego Mini Parasep®.

- 1A Otworzyć probówkę a następnie.
  - 1B Dodaj 2,4ml utrwalacza.
  - 1C Oraz 1 kroplę surfaktantu (np. Apacor Triton X rozwiązanie).
- Alternatywnie można użyć gotowego odczynnika Mini Parasep®.

1D Za pomocą łyżki znajdującej się na końcu filtra Mini Parasep® wprowadzić do utrwalacza płaską miarkę uformowanej próbki kału (odpowiednik 0,5 g). W przypadku próbek płynnych dodaj 2 płaskie miarki (odpowiednik 1 g) do utrwalacza. Dodaj 1,0 ml octanu etylu do komory mieszania. Dokładnie wymieszać łyżką Mini Parasep®. Jeśli próbka jest twarda, rozbij ją końcem łyżki.

## Przygotowanie emulsji

- 2 Połączyć ze sobą dwie części probówki Mini Parasep® (1: część wirówkowa probówki zaopatrzona w łopatkę oraz filtr; 2 część probówki z roztworem oraz materiałem biologicznym). Dokładnie wymieszać zawartość probówki (część stożkowa powinna być skierowana ku górze).

## Wirowanie

- 3 Probówkę Mini Parasep® wirować przy 1200 g przez 3 minut. Mini Parasep® pasuje do wszystkich 15ml wiadra wirówki.

UWAGA: Dla każdej wirówki należy obliczyć prędkość wirowania.

$$\text{RPM} = \sqrt{\frac{g}{1.12r}} \times 1000$$

RPM Prędkość wirowania (obroty/min)

g siła odśrodkowa (maksimum 1000g)

r Promień ramienia rotora

## Pobranie przygotowanej próbki do badań

Po odwirowaniu bardzo ostrożnie otworzyć probówkę.

- 4A Część stożkowa zawiera przygotowany do badań materiał. Drugą część probówki (część filtrującą) zawierającą zanieczyszczenia należy zutylizować.
- 4B Następnie ostrożnie zlać nadsącz (materiał nie związany w osadzie oraz płyn pozostający nad osadem).
- 4C Pipetuj jedną kropelkę osadu na szynę mikroskopową i przykryj szkiełko nakrywkowe. Alternatywnie, postępuj zgodnie z laboratoryjnymi standardowymi procedurami działania preparatu slajdów mikroskopowych.

# PT

Veja as condições de armazenamento e a data de validade na etiqueta.

Quando manusear o Mini Parasep® deve seguir as instruções de utilização. Para evitar contaminações cruzadas o Mini Parasep® deve permanecer sempre fechado, excepto quando introduz a amostra ou quando extrai a preparação final para ser examinada.

## Preparação da amostra

Para Mini Parasep® vazio.

- 1A Desenrosar a tampa.
- 1B Adicione 2,4ml de fixador.
- 1C Se necessário uma gota de surfactante (solução Apacor Triton X) para emulsionar.

Alternativamente, use o Mini Parasep® pronto para reagente

1D Introduza uma colher rasa de amostra fecal formada (equivalente a 0,5g) no fixador usando a colher na extremidade do filtro Mini Parasep®. Para amostras líquidas, adicione 2 colheres rasas (equivalente a 1g) ao fixador. Adicione 1,0 ml de acetato de etila à câmara de mistura. Misture bem com a colher Mini Parasep®. Se a amostra estiver dura, quebre-a com a ponta da colher.

## Emulsão

- 2 Enrosar a câmara de mistura com a unidade de filtro/cone de sedimentação. Agitar no vortex para emulsionar com o cone de sedimentação apontando para cima.

## Centrifugação

- 3 Inverter o Mini Parasep® e centrifugar a 1200g por 3 minutos. Mini Parasep® é adequado a todos os copos de centrifuga de 15ml.

Nota: Para calcular as RPM para qualquer centrifuga

$$\text{RPM} = \sqrt{\frac{g}{1.12r}} \times 1000$$

RPM Velocidade do rotor

g Força centrífuga (máximo 1000g)

r Raio, distância entre a ponta do cone e o centro do rotor medida em mm

## Visualização

Abrir lentamente para evitar a saída de aerossóis

- 4A Desenrosque e elimine a câmara de mistura juntamente com o filtro.
- 4B Decante o líquido sobrenadante do sedimento.
- 4C Pipetar uma gota de sedimento em uma lâmina de microscópio e cobrir com lamínula. Alternativamente, siga o procedimento operacional padrão do laboratório para preparação de lâminas de microscópio.

# SI

Shranjevanje in rok uporabe: glej nalepko!

Prosimo, da pri uporabi koncentradorja Mini Parasep® upoštevate naslednja priporočila. Koncentrador Mini Parasep® naj bo vedno zaprt. Odprite ga samo med dodajanjem vzorca blata in odvzemom koncentriranega vzorca za mikroskopsko analizo. S tem preprečite navzkrižno kontaminacijo.

## Priprava vzorca

Za prazen Mini Parasep®.

1A Odvijte zamašek koncentradorja.

1B Dodajte 2.4 ml fiksativa.

1C Ter 1 kapljico surfaktanta (npr. Apacor Triton X raztopina).

Alternativno, koristite Mini Parasep® spreman za reagens

1D Uneti ravnu mericu formiranog uzorka fekalija (ekvivalentno 0,5 g) u fiksativ koristeći kašiku na kraju Mini Parasep® filtera. Za tečne uzorke, dodajte 2 merice (ekvivalentno 1 g) u fiksativ. Dodajte 1,0 ml etil acetata u komoru za mešanje. Dobro promešajte sa Mini Parasep® kašikom. Ako je uzorak tvrd, razbijte ga krajem kašike.

## Emulzifikacija

2 Koncentrador tesno zaprite in ga premešajte ročno ali z vortexom. Filtrirni del z vzorcem naj bo pri tem obrnjen navzdol.

## Centrifugiranje

3 Koncentrador obrnite in ga centrifugirajte 3 minuti pri 1200g. Koncentrador ustreza vsem 15 ml nastavkom v centrifugah.

Opomba: Za izračun potrebne hitrosti (obrati na minuto), lahko za katerokoli centrifugo, uporabite naslednjo formulo

$$\text{RPM} = \sqrt{\frac{g}{1.12r}} \times 1000$$

RPM Hitrost rotorja v obratih na minuto

g Centrifugalna sila (maks. 1000g)

r polmer, razdalja med konico koncentradorja in osjo rotorja, merjena v mm

## Pregled vzorca

Koncentrador odprite zelo počasi, da preprečite uhajanje aerosol.

4A Filtrirni del koncentradorja odvijte in zavržite.

4B Vso tekočino nad sedimentom odlijte.

4C Potopite eno kapljico usedline na drsnik za mikroskop in pokrijte s pokrovom. Druga možnost je, da sledite laboratorijskemu standardnemu obratovalnemu postopku za pripravo mikroskopskega drsnika.





## APAFIX™ SAFETY DATA SHEET

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier: Apafix™

108801, 108887 145002, 145003, 145005 146003, 146004,  
146005, 149901, 160001, 902500, 907500

**1.2 Relevant identified uses of the substance or mixture and  
uses advised against:** laboratory chemical (in vitro diagnostic)

#### 1.3 Details of the supplier of the Safety Data Sheet:

Apacor Limited, Unit 5 Sapphire Centre, Fishponds Road,  
Wokingham, Berkshire, RG41 2QL, United Kingdom

+44 (0) 118 979 5566

[technical@apacor.com](mailto:technical@apacor.com)

#### 1.4 Emergency telephone number:

+44 (0)118 979 5566

(Monday-Friday 0900-1700 excluding UK Public Holidays)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008  
[CLP]:

The mixture does not present a physical or chemical hazard.  
See Section 16 for the full text of H-Statements mentioned in  
this section.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

#### Hazard statement(s)

NC Not Classified

#### Precautionary statements:

P261 – Avoid breathing vapour/spray

P280 - Wear protective gloves/protective clothing/eye  
protection/face protection.

Contains Acetic Acid

#### 2.3 Other hazards

No data available.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

#### Hazardous ingredients according to Regulation (EC)

#### No 1272/2008

Component: **Acetic Acid**

CAS No: 64-19-7

EC No: 200-580-7

Index No: 607-002-00-6

Registration No: -

Classification: Skin Corr. 1A (H314), Flam. Liq. 3 (H226), Eye  
Dam. 1 (H318)

Concentration: < 10%

Component: **Menthol**

CAS No: 89-78-1

EC No: 201-939-0

Index No: 603-001-00-x

Registration No: 01-2119433307-44-xxxx

Classification: Flam. Liq. 2 (H225), Acute Tox 3 (H301 + H311 +  
H331), STOT SE 1 (H370)

Concentration: < 1%

Component: **Thymol**

CAS No: 89-83-8

EC No: 201-944-8

Index No: 604-032-00-1

Registration No: -

Classification: Acute Tox. 4 (H302), Skin Corr. 1B (H314),

Aquatic Chronic 2 (H411)

Concentration: < 1%

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

Consult a physician. Show this safety data sheet to the doctor  
in attendance.

**In case of eye contact:** Rinse thoroughly with plenty of water  
for at least 15 minutes and consult a physician.

**In case of skin contact:** Wash off immediately with soap and  
plenty of water while removing all contaminated clothes and  
shoes. Consult a physician if discomfort continues.

**If swallowed:** Clean mouth with water and drink afterwards  
plenty of water. Consult a physician.

**If inhaled:** Move to fresh air. Consult a physician if discomfort  
continues.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important symptoms and effects are described in  
the labelling Section 2.2 and/or Section 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically. Have facilities in  
place to wash skin and eyes in case of exposure. Severe cases  
of exposure should receive prompt medical attention.

**Eye contact** – May cause eye irritation. May cause redness.

**Skin Contact** – May irritate the skin.

**Ingestion** – May irritate the mouth and throat. Small amounts  
will leave taste in mouth, larger amounts may cause nausea  
and vomiting.

**Inhalation** – Acute: May irritate the respiratory system and  
cause coughing. Delayed: Prolonged exposure to vapours or  
mists can cause damage to the mucous membranes of the  
respiratory system.

### SECTION 5 FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

This product is non-combustible. Water spray, dry powder,  
carbon dioxide or alcohol resistant foam.

#### 5.2 Special hazards arising from the substance or mixture

In case of fire, toxic or irritating fumes or vapours may be  
formed. Contact with metals may form hydrogen gas which is  
flammable and can result in explosion.

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting.



# APAFIX™ SAFETY DATA SHEET

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment, gloves and protective eye glasses. Ensure adequate ventilation, especially in confined areas.

### 6.2 Environmental precautions

Should not be released into the environment. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

### 6.3 Methods and material for containment and cleaning up

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. After cleaning, flush away traces with water.

### 6.4 Reference to other sections

For disposal, see Section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Do not breathe vapours or spray mist. Ensure that ventilation is adequate before using this product. Avoid contact with skin and eyes. Take necessary personal protective precautions before using this product. Keep away from heat and flame.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep container tightly closed in a dry well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### Acetic Acid 64-19-7

<b>Austria</b>	STEL: 20ppm STEL: 50mg/m <sup>3</sup> TWA: 10ppm TWA: 25 mg/m <sup>3</sup>
<b>Belgium</b>	STEL: 15ppm STEL: 38 mg/m <sup>3</sup> TWA: 10ppm TWA: 25mg/m <sup>3</sup>
<b>Denmark</b>	STEL: 20ppm STEL: 50 mg/m <sup>3</sup> TWA: 10ppm TWA: 25 mg/m <sup>3</sup>
<b>France</b>	STEL: 10ppm STEL: 25 mg/m <sup>3</sup>

#### Acetic Acid 64-19-7

<b>Germany</b>	STEL: 20ppm STEL: 50 mg/m <sup>3</sup> TWA: 10ppm TWA: 25 mg/m <sup>3</sup>
<b>Ireland</b>	STEL: 15ppm STEL: 37 mg/m <sup>3</sup> TWA: 10ppm TWA: 25 mg/m <sup>3</sup>
<b>Italy</b>	TWA: 10ppm TWA: 25 mg/m <sup>3</sup>
<b>Poland</b>	STEL: 30 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup>
<b>Portugal</b>	STEL: 10ppm TWA: 10ppm TWA: 25 mg/m <sup>3</sup>
<b>Spain</b>	STEL: 15ppm STEL: 37 mg/m <sup>3</sup> TWA: 10ppm TWA: 25 mg/m <sup>3</sup>
<b>Sweden</b>	STEL: 10ppm STEL: 25 mg/m <sup>3</sup> TWA: 5ppm TWA: 13 mg/m <sup>3</sup>

### 8.2 Exposure controls

#### 8.2.1 Appropriate Engineering Controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday. Ensure adequate ventilation, especially in confined areas.

#### 8.2.2 Personal protective equipment

- (a) Eye/face protection: Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- (b) Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves should satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
- (c) Body Protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- (d) Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the



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respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### 8.2.3 Environmental exposure controls

See section 6.2

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- a) **Appearance:** Form: liquid  
Colour: Clear
- b) **Odour:** pungent/acetic acid + distinct thyme smell
- c) **Odour threshold:** no data available
- d) **pH:** ≤1
- e) **Melting point / freezing point:** no data available
- f) **Initial boiling point / boiling range:** no data available
- g) **Flash point:** Not applicable. The mixture is non-flammable.
- h) **Evaporation rate:** no data available
- i) **Flammability (solid, gas):** no data available
- j) **Upper/lower flammability or explosive limits:** Not applicable. The mixture is non-flammable.
- k) **Vapour pressure:** no data available
- l) **Vapour density:** no data available
- m) **Relative density:** no data available
- n) **Solubility (ies):** soluble in water
- o) **Partition coefficient: n-octanol/water:** no data available
- p) **Auto-ignition temperature:** no data available
- q) **Decomposition temperature:** no data available
- r) **Viscosity:** no data available
- s) **Explosive properties:** no data available
- t) **Oxidising properties:** no data available

### 9.2 Other information

No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Reactions characteristic of weak acids.

### 10.2 Chemical stability

Stable under recommended handling and storage conditions under Section 7.

### 10.3 Possibility of hazardous reactions

May react vigorously or exothermically. Pressure may build up if reaction occurs in a sealed container. Will not polymerise.

### 10.4 Conditions to avoid

Avoid heat, direct sunlight and moisture. Avoid storage in freezing conditions. Avoid storage with incompatible materials. Avoid storage in an unstable manner or in a situation that would result in exposure to the product. It is advisable to store the product within some form of containment to prevent spillages reaching drainage systems.

### 10.5 Incompatible materials

Alkalis. Oxidising agents. Metals.

### 10.6 Hazardous decomposition products

Under normal use – none

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information of toxicological effects

#### Acute toxicity:

**Product:** The mixture has not been tested for toxicological properties. This information refers to acetic acid as a pure substance.

**Inhalation:** Industry – Dermal; Long term systemic effects  
22mg/kg/day Haematological effects

**Eye contact:** no data available

**Skin contact:** no data available

**Ingestion:** Sodium salt of acetic acid, pH 6-7

**Skin corrosion/irritation:** Dose: 0.5ml, 4 hr, Rabbit Primary dermal irritation index: 1.1 OECD Guideline 404 10% solution. Slightly irritating.

**Serious eye damage/eye irritation:** OECD 405, rabbit, 10% solution, 4 hour, 0.1ml. Erythema = 2.67, corneal swelling = 87%.

**Respiratory or skin sensitisation:** no data available

**Germ cell mutagenicity:** no data available

**Carcinogenicity:** no data available

**Reproductive toxicity:** no data available

**Specific target organ toxicity - single exposure:** no data available

**Specific target organ toxicity - repeated exposure:** no data available

**Aspiration hazard:** no data available

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

The mixture has not been tested for ecotoxicological properties.

The following information contained in section 12 refers to acetic acid as a pure substance.

**Acute toxicity – fish:** LC50, 96 hours: > 1000 mg/l, Onchorhynchus mykiss (Rainbow trout)  
OECD 203 (Fish, Acute Toxicity Test)  
Freshwater, semi-static.  
Mortality

**Acute toxicity – aquatic invertebrates:** EC50, 48 hours: > 300.82 mg/l, Daphnia magna  
OECD Guideline 202.  
Static, freshwater.

Mobility.

Test substance potassium acetate; result based on the acetate ion.

**Acute toxicity – aquatic plants:** EC50, 72 hours: > 300.82 mg/l, Static, saltwater, Skeletonema costatum.  
Test substance potassium acetate; result based on the acetate ion.

**Acute toxicity – microorganisms:** EC50: 850 mg/l, Industry - Dermal; Long term systemic effects 22 mg/kg/day Pseudomonas putida, static, freshwater, 16 hour

**Acute toxicity – terrestrial:** Not available.

**Chronic toxicity – fish early life stage:** Not available.



## APAFIX™ SAFETY DATA SHEET

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**Short term toxicity – embryo and sac fry stages:** Industry - Dermal; Long term systemic effects 22 mg/kg/day  
No supplied or registered information.

**Chronic toxicity – aquatic invertebrates:** Not available.

**Toxicity to soil:** Not available.

**Toxicity to terrestrial plants:** Not available.

### 12.2 Persistence and degradability

**Phototransformation:** Water - DT<sub>50</sub>: 26.7 days

Degradation by hydroxyl radicals.

Calculated value.

**Stability (hydrolysis):** Scientifically unjustified.

**Biodegradation:** Water – Degradation (%) 96%: 20 days

Readily biodegradable – Half life: 2 days

**Biological oxygen demand:** No information available.

**Chemical oxygen demand:** No information available.

### 12.3 Bioaccumulative potential

BCF: 3.16, QSAR calculation. Fish, freshwater. Not bioaccumulating.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

PBT or vPvB not classified according to current EC criteria.

### 12.6 Other adverse effects

No information available.

### 12.7 Additional information

No information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Proper waste management of the mixture and its container must be determined in accordance with directive 2008/98/EC.**

### 13.1 Waste treatment methods

13.1.1 Product/packaging disposal

Do not pour into drains or waterways. Recycle or dispose of waste in compliance with current, local legislation, preferably via a certified waste company.

## SECTION 14: TRANSPORT INFORMATION

**IATA/DOT/IMDG/TDG -** Not regulated

**14.1 UN number:** Not applicable

**14.2 UN proper shipping name:** Not applicable

**14.3 Transport hazard class(es):** Not applicable

**14.4 Packing group:** Not applicable

**14.5 Environmental hazards:** Not applicable

**14.6 Special precautions for user:** Not applicable

## SECTION 15: REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations:** Industry – Dermal; Long term systemic effects 22mg/kg/day

**EU legislation:** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as

amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Regulation (EU) 453/2010.

### 15.2 Chemical Safety Assessment

A chemical safety assessment was not carried out for this mixture.

## SECTION 16: OTHER INFORMATION

The information in this datasheet is based on our current level of knowledge and on national and international regulations.

The mixture must not be used for other purposes than those specified in Section 1. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

### Full text of H-Statements referred to under sections 2 and 3

H226 – Flammable liquid and vapour

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

P261 – Avoid breathing vapour/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

The above information is believed to be correct but does not purport to be all inclusive and shall be used as a guide. Apacor shall not be held liable for any damages resulting from handling or from contact with the above product, since the user's working conditions are not known by Apacor.



MDSS GmbH  
Schiffaraben 41  
30175 Hanover  
Germany

## ETHYL ACETATE SAFETY DATA SHEET

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

### 1.1 Product Identifier: Ethyl Acetate

145003, 145400, 145420, 145501, 145900, 146004, 146400, 146501, 1473, 900000, 901000, 903000, 905000, 906000, 908000

Synonyms, Trade Names: ETHYL ACETATE 98 - 100%, ACETIC ACID ETHYL ESTER, ACETOXYETHANE

REACH Registration Number: 01-2119475103-46-XXXX

CAS-No: 141-78-6

EU Index No: 607-022-00-5

EC No: 205-500-4

**1.2 Relevant identified uses of the substance or mixture and uses advised against:** laboratory chemical for the removal of fat from faecal samples.

**1.3 Details of the supplier of the Safety Data Sheet:** Apacor Limited, Unit 5 Sapphire Centre, Fishponds Road, Wokingham, Berkshire, RG41 2QL, United Kingdom  
+44 (0) 118 979 5566  
[technical@apacor.com](mailto:technical@apacor.com)

### 1.4 Emergency telephone number:

+44 (0)118 979 5566

(Monday-Friday 0900-1700 excluding UK Public Holidays)

## SECTION 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Flam. Liq. 2 - H225

STOT SE 3 - H336

Eye Irrit. 2 - H319

See Section 16 for the full text of H-Statements mentioned in this Section.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]



**Pictogram**

**Signal word**

**Danger**

### Hazard Statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

### Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P261 Avoid breathing vapour/spray.

P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with national regulations.

### Supplemental Label Information

EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards

Not classified as PBT/vPvB by current EU criteria.

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

#### Hazardous ingredients according to Regulation (EC) No 1272/2008

**Product Name:** ETHYL ACETATE

**REACH Registration Number:** 01-2119475103-46-XXXX

**CAS-No:** 141-78-6

**EU Index No:** 607-022-00-5

**EC No:** 205-500-4

**Composition Comments:** The data shown are in accordance with the latest EC Directives.

## SECTION 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled:** Remove affected person from source of contamination. Get medical attention if any discomfort continues.

**In case of skin contact:** Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

**In case of eye contact:** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

**If swallowed:** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.

### 4.2 Most important symptoms and effects, both acute and delayed

**If inhaled:** Central nervous system depression including narcotic effects such as drowsiness, narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo.

**In case of skin contact:** Prolonged contact may cause redness, irritation and dry skin.

**In case of eye contact:** May cause temporary eye irritation.

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes for doctor: No specific recommendations. If in doubt, get medical attention promptly.

## ETHYL ACETATE SAFETY DATA SHEET

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

## SECTION 5 FIRE FIGHTING MEASURES

**5.1 Extinguishing Media:** Suitable extinguishing media: alcohol-resistant foam, carbon dioxide, dry powder or water fog.

**5.2 Special Hazards Arising from the Substance or Mixture**

**Specific Hazards:** Carbon oxides.

**5.3 Advice for Fire-fighters**

**Protective Equipment for Fire-fighters:** Positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures**

Follow precautions for safe handling described in this safety data sheet. Take precautionary measures against static discharges. Avoid inhalation of vapours and contact with skin and eyes.

**6.2 Environmental precautions**

Spillages or uncontrolled discharges into watercourses must be immediately alerted to the Environmental Agency or other appropriate regulatory body.

**6.3 Methods and material for containment and cleaning up**

Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

**6.4 Reference to other sections**

Wear protective clothing as described in Section 8 of this safety data sheet.

## SECTION 7 HANDLING AND STORAGE

**7.1 Precautions for safe handling**

Avoid spilling. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Provide adequate ventilation.

**7.2 Conditions for safe storage, including any incompatibilities**

Storage precautions: Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.

Storage class: Flammable liquid storage.

**7.3 Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters**

Name	STD	TWA – 8 Hrs	STEL – 15 Min
Ethyl Acetate	WEL	200 ppm	400 ppm

WEL = Workplace Exposure Limit

**Ingredient Comments**

DNEL Industry Inhalation. 1468 mg/m<sup>3</sup>  
 DNEL Consumer Inhalation. 734 mg/m<sup>3</sup>  
 DNEL Industry Dermal Long Term 63mg/kg/day  
 DNEL Industry Inhalation Long Term 734 mg/m<sup>3</sup>  
 DNEL Consumer Dermal Long Term 37mg/kg/day  
 DNEL Consumer Inhalation Long Term 367mg/m<sup>3</sup>

PNEC Freshwater 0.26  
 PNEC Soil 0.22mg/kg  
 PNEC Sediment 0.34mg/kg  
 PNEC STP 650mg/l

**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**8.2.2 Personal protective equipment**

(a) Eye/face protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

(b) Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves should satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Butyl rubber gloves are recommended.

(c) Body Protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Other Protection: Wear rubber apron. Wear rubber footwear.

(d) Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU), fitted with type A2 gas filter cartridge.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties**

**a) Appearance** Form: colourless liquid

**b) Odour** Fruity

**c) Odour threshold** no data available

**d) pH** no data available

**e) Melting point / freezing point** -83.8°C

**f) Initial boiling point and boiling range** 76-77°C

**g) Flash point** -4°C closed cup

**h) Evaporation rate** 4.5 (diethyl ether=1)

**i) Flammability (solid, gas)** no data available

**j) Upper/lower flammability or explosive limits** 2.2% lower, 11.5% upper



## ETHYL ACETATE SAFETY DATA SHEET

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

- k) **Vapour pressure** no data available  
 l) **Vapour density** 3.04  
 m) **Relative density** 0.899 – 0.903 @ 20°C  
 n) **Solubility (ies)** soluble in water  
 o) **Partition coefficient: n-octanol/water** 0.68  
 p) **Auto-ignition temperature** 427°C  
 q) **Decomposition temperature** no data available  
 r) **Viscosity** 0.4508 mPas @ 20°C  
 s) **Explosive properties** no data available  
 t) **Oxidising properties** no data available

## 9.2 Other information

Mol. Weight 88.11

## SECTION 10 STABILITY AND REACTIVITY

### 10.1 Reactivity

No known reactivity hazards associated with this product.

### 10.2 Chemical stability

Stable under normal ambient temperature conditions and recommended use.

### 10.3 Possibility of hazardous reactions

Hazardous Polymerisation: Will not polymerise.

### 10.4 Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition.

### 10.5 Incompatible materials

**Materials To Avoid:** Strong oxidising substances.

### 10.6 Hazardous decomposition products

**Oxides of:** Carbon.

## SECTION 11 TOXICOLOGICAL INFORMATION

### 11.1 Information of toxicological effects

**Acute toxicity:** (Oral LD50): 4934 mg/kg Rabbit OECD 401 (Dermal LD50): > 20000 mg/kg Rabbit OECD 404

**Skin corrosion/irritation:** Repeated exposure may cause skin dryness or cracking.

**Serious eye damage/eye irritation:** Slightly irritating.

**Respiratory or skin sensitisation:** Irritating to respiratory system. Vapours have a narcotic effect and may cause headache, fatigue, dizziness, nausea and vomiting.

**Germ cell mutagenicity:** no data available

**Carcinogenicity:** no data available

**Reproductive toxicity:** no data available

**Specific target organ toxicity - single exposure:** no data available

**Specific target organ toxicity - repeated exposure:** no data available

**Aspiration hazard:** no data available

### Additional Information

Ingestion: May cause discomfort if swallowed. Narcotic effect.

## SECTION 12 ECOLOGICAL INFORMATION

### 12.1 Toxicity

Ecotoxicity: The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

#### Toxicity to Fish

<b>Ethyl Acetate</b>	LC50 96 hours 230 mg/l Pimephales promelas (Fat-head Minnow)
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#### Toxicity to Daphnia and other Aquatic Invertebrates

<b>Ethyl Acetate</b>	NOEC 72 hours > 100 mg/l Daphnia magna
----------------------	--

### 12.2 Persistence and degradability

The product is readily biodegradable.

### 12.3 Bioaccumulative potential

No data available. Partition coefficient: 0.68

### 12.4 Mobility in soil

The product is soluble in water. Surface Tension: 24 mN/m 20.

### 12.5 Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

### 12.6 Other adverse effects

Not determined.

## SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**General Information:** Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. Do not puncture or incinerate even when empty. Dispose of waste and residues in accordance with local authority requirements.

## SECTION 14 TRANSPORT INFORMATION

**General:** Wear protective clothing as described in Section 8 of this safety data sheet.

**14.1 UN number** (ADR/RID/IMDG/ICAO) 1173

**14.2 UN proper shipping name** Ethyl Acetate

**14.3 Transport hazard class(es)**

ADR/RID/IMDG/ICAO Class: 3

ADR Label No: 3

IMDG Class: 3

ICAO Class/Division: 3

Transport label:



**14.4 Packing group**

ADR/RID/IMDG/ICAO Packing group: II

**14.5 Environmental hazards** No

**14.6 Special precautions for user**

**EMS:** F-E, S-D

**Emergency Action Code:** •3YE

**Hazard Identification No. (ADR/RID):** 33

**Tunnel Restriction Code:** (D/E)

**ETHYL ACETATE SAFETY DATA SHEET**

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

**SECTION 15 REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National Regulations:** The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

**EU Legislation:** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

This product may impact SEVESO storage regulations.

**Guidance:** CHIP for everyone HSG228.

Workplace Exposure Limits EH40.

Safety Data Sheets for Substances and Preparations.

Approved Classification and Labelling Guide (Sixth edition) L131.

DSEAR

**Water Hazard Classification:** WGK 1

**15.2 Chemical Safety Assessment**

A chemical safety assessment has not been carried out.

**Inventory Information:** TSCA EINECS PICCS NZIOC KECL ISHL ENCS

AICS DSL IECS

**SECTION 16 OTHER INFORMATION****Hazard Statements in Full**

**H225** Highly flammable liquid and vapour.

**H319** Causes serious eye irritation.

**H336** May cause drowsiness or dizziness.

**EUH066** Repeated exposure may cause skin dryness or cracking.

The information supplied in this SDS is correct to the best of our knowledge. We do not accept any liability for loss, injury or damage, which may result from its use.



MDSS GmbH  
Schiffaraben 41  
30175 Hanover  
Germany

**10% FORMALIN SAFETY DATA SHEET**

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

**SECTION 1 IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING****1.1 Product Identifier: 10% Formalin**

145200, 145300, 145400, 145420, 145800, 145900, 1460, 146200, 146300, 146400, 108900, 108910, 148998, 149910, 151000, 900000, 903000, 905000, 908000

**1.2 Relevant identified uses of the substance or mixture and uses advised against: laboratory chemical (in vitro diagnostic)****1.3 Details of the supplier of the Safety Data Sheet:**

Apacor Limited, Unit 5 Sapphire Centre, Fishponds Road, Wokingham, Berkshire, RG41 2QL, United Kingdom  
+44 (0) 118 979 5566  
[technical@apacor.com](mailto:technical@apacor.com)

**1.4 Emergency telephone number:**

+44 (0)118 979 5566  
(Monday-Friday 0900-1700 excluding UK Public Holidays)

**SECTION 2 HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Acute toxicity, Oral (Category 4), H302

Skin sensitisation (Category 1), H317

Acute toxicity, Inhalation (Category 4), H332

Germ cell mutagenicity (Category 2), H341

Carcinogenicity (Category 1B), H350

See Section 16 for the full text of H-Statements mentioned in this Section.

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008 [CLP]

**Pictogram****Signal word**

**Danger**

**Hazard statement(s)**

H302 Harmful if swallowed

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H341 Suspected of causing genetic defects

H350 May cause cancer

Contains Formaldehyde.

**Precautionary statements:**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

See Section 16 for the full text of H-Statements mentioned in this Section.

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous ingredients according to Regulation (EC) No 1272/2008**

Component: **Formaldehyde**

CAS No: 50-00-0

EC No: 200-001-8

Index No: 605-001-00-5

Classification: Acute Tox. 3 (H301 + H311 + H331), Skin Corr. 1B (H314), Skin Sens. 1 (H317), Muta. 2 (H341), Carc. 1B (H350)

Concentration: < 5%

Component: **Methanol**

CAS No: 67-56-1

EC No: 200-659-6

Index No: 603-001-00-x

Registration No: 01-2119433307-44-xxxx

Classification: Flam. Liq. 2 (H225); Acute Tox. 3 (H301 + H311 + H331); STOT SE 1 H370

Concentration: < 1%

See Section 16 for the full text of H-Statements mentioned in this Section.

**SECTION 4 FIRST AID MEASURES****4.1 Description of first aid measures**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (Section 2.2) and/or Section 11.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

**SECTION 5 FIRE FIGHTING MEASURES****5.1 Extinguishing media**

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 10% FORMALIN SAFETY DATA SHEET

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus and full protective gear.

**SECTION 6 ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see Section 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**6.3 Methods and material for containment and cleaning up**

Contain spillage, and then collect and place in container for disposal according to local regulations (see Section 13). Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal, see Section 13.

**SECTION 7 HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition—no smoking. Take measures to prevent the build-up of electrostatic charge. For precautions see Section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**7.3 Specific end use(s)**

No other specific uses are specified apart from those listed in Section 1.2.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

Exposure limits: this product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

	Formaldehyde 50-00-0	Methanol 67-56-1
<b>Austria</b>	STEL: 0.5 ppm STEL: 0.6 mg/m <sup>3</sup> TWA: 0.5 ppm TWA: 0.6 mg/m <sup>3</sup>	STEL: 800 ppm STEL: 1040 mg/m <sup>3</sup> TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>
<b>Belgium</b>	STEL: 0.3 ppm STEL: 0.38 mg/m <sup>3</sup>	STEL: 250 ppm STEL: 333 mg/m <sup>3</sup> TWA: 200 ppm TWA: 266 mg/m <sup>3</sup>

	Formaldehyde 50-00-0	Methanol 67-56-1
<b>Denmark</b>	STEL: 0.3 ppm STEL: 0.4 mg/m <sup>3</sup> TWA: 0.3 ppm TWA: 0.4 mg/m <sup>3</sup>	STEL: 400 ppm STEL: 520 mg/m <sup>3</sup> TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>
<b>France</b>	TWA: 0.5 ppm STEL: 1 ppm	STEL: 1000 ppm STEL: 1300 mg/m <sup>3</sup> TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>
<b>Germany</b>	STEL: 0.6 ppm STEL: 0.74 mg/m <sup>3</sup> TWA: 0.3 ppm TWA: 0.37 mg/m <sup>3</sup>	STEL: 800 ppm STEL: 1080 mg/m <sup>3</sup> TWA: 200 ppm TWA: 270 mg/m <sup>3</sup>
<b>Ireland</b>	STEL: 2 ppm STEL: 2.5 mg/m <sup>3</sup> TWA: 2 ppm TWA: 2.5 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>
<b>Italy</b>		TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>
<b>Poland</b>	STEL: 1 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>	STEL: 300 mg/m <sup>3</sup> TWA: 100 mg/m <sup>3</sup>
<b>Portugal</b>	STEL: 0.3 ppm	STEL: 250 ppm TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>
<b>Spain</b>	STEL: 0.3 ppm STEL: 0.37 mg/m <sup>3</sup>	STEL: 250 ppm STEL: 333 mg/m <sup>3</sup> TWA: 200 ppm TWA: 266 mg/m <sup>3</sup>
<b>Sweden</b>	STEL: 0.6 ppm STEL: 0.74 mg/m <sup>3</sup> TWA: 0.3 ppm TWA: 0.37 mg/m <sup>3</sup>	STEL: 250 ppm STEL: 350 mg/m <sup>3</sup> TWA: 200 ppm TWA: 250 mg/m <sup>3</sup>
<b>The Netherlands</b>	STEL: 0.5 mg/m <sup>3</sup> TWA: 0.15 mg/m <sup>3</sup>	TWA: 133 mg/m <sup>3</sup>
<b>UK</b>	STEL: 2 ppm STEL: 2.5 mg/m <sup>3</sup> TWA: 2 ppm TWA: 2.5 mg/m <sup>3</sup>	STEL: 250 ppm STEL: 333 mg/m <sup>3</sup> TWA: 200 ppm TWA: 266 mg/m <sup>3</sup>

**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**8.2.2 Personal protective equipment**

(a) Eye/face protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

(b) Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves should satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

(c) Body Protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

(d) Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested

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This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**8.2.3 Environmental exposure controls**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

- a) **Appearance** Form: liquid  
 b) **Odour** no data available  
 c) **Odour threshold** no data available  
 d) **pH** no data available  
 e) **Melting point / freezing point** no data available  
 f) **Initial boiling point and boiling range** 100°C at 1.013 hPa  
 g) **Flash point** 85°C  
 h) **Evaporation rate** no data available  
 i) **Flammability (solid, gas)** no data available  
 j) **Upper/lower flammability or explosive limits**  
 Upper 70% (V), Lower 7% (V)  
 k) **Vapour pressure** 53hPa at 39°C  
 l) **Vapour density** no data available  
 m) **Relative density** 1.080g/cm<sup>3</sup>  
 n) **Solubility (ies)** completely miscible  
 o) **Partition coefficient: n-octanol/water** no data available  
 p) **Auto-ignition temperature** no data available  
 q) **Decomposition temperature** no data available  
 r) **Viscosity** no data available  
 s) **Explosive properties** no data available  
 t) **Oxidising properties** no data available
- 9.2 Other information**  
 No data available.

**SECTION 10 STABILITY AND REACTIVITY****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

Heat, flames and sparks.

**10.5 Incompatible materials**

No materials to be mentioned in particular.

**10.6 Hazardous decomposition products**

Carbon oxides.

**SECTION 11 TOXICOLOGICAL INFORMATION****11.1 Information of toxicological effects**

**Acute toxicity:** no data available

**Skin corrosion/irritation:** no data available

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitisation:** no data available

**Germ cell mutagenicity:** no data available

**Carcinogenicity:** IARC: 1 - Group 1: Carcinogenic to humans (Formaldehyde)

**Reproductive toxicity:** no data available

**Specific target organ toxicity - single exposure:** no data available

**Specific target organ toxicity - repeated exposure:** no data available

**Aspiration hazard:** no data available

**Additional Information**

Chemical Name	
Formaldehyde	LD50 oral 600mg/kg (Rat)
	LD50 dermal 270mg/kg (Rabbit)
	LC50 inhalation 0.578mg/L (Rat) 4 h
Methanol	LD50 oral - rat - 5628mg/kg
	LC50 inhalation - rat - 4h - 83.2mg/l/4h

**SECTION 12 ECOLOGICAL INFORMATION****12.1 Toxicity**

Ecotoxicity effects: contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Toxicity to Fish	
Formaldehyde	0.032 - 0.226: 96 h Oncorhynchus mykiss mL/L LC50 flow-through 100- 136: 96 h Oncorhynchus mykiss mg/L LC50 static 1510: 96 h Lepomis macrochirus µg/L LC50 static 22.6 - 25.7: 96 h Pimephales promelas mg/L LC50 flow-through 23.2 - 29.7: 96 h Pimephales promelas mg/L LC50 static 41: 96 h Brachydanio rerio mg/L LC50 static
	Methanol LC50 - Pimephales promelas - 28200mg / L 96h

**Toxicity to Daphnia and other Aquatic Invertebrates**

Formaldehyde	11.3 - 18: 48 h Daphnia magna mg/L EC50 Static
	2: 48 h Daphnia magna mg/L LC50
Methanol	EC50 - Daphnia magna - >10000mg/l

**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulative potential**

No data available.

Chemical Name	log Pow
Formaldehyde	0.35
Methanol	-0.77

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

No data available.

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**12.7 Additional information**

None.

**SECTION 13 DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

**Product:** Dispose of in accordance with all federal, state, and local regulations. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging:** Dispose of as unused product.

**SECTION 14 TRANSPORT INFORMATION**

**IATA/DOT/IMDG/TDG:** Not regulated.

**14.1 UN number:** -

**14.2 UN proper shipping name:** -

**14.3 Transport hazard class(es):** -

**14.4 Packing group:** -

**14.5 Environmental hazards:** -

**14.6 Special precautions for user:** -

**SECTION 15 REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No data available.

**15.2 Chemical Safety Assessment**

No chemical safety assessment has been carried out for this product.

**SECTION 16 OTHER INFORMATION****Full text of H-Statements referred to in Sections 2 and 3**

H225 Highly flammable liquid and vapour.

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H370 Causes damage to organs.

Acute Tox. Acute toxicity

Carc. Carcinogenicity

Flam. Liq. Flammable liquids

Muta. Germ cell mutagenicity.

Skin Corr. Skin corrosion

Skin Sens. Skin sensitisation

STOT SE Specific target organ toxicity - single exposure

Amended sections are indicated by a line in the border.

The information supplied in this SDS is correct to the best of our knowledge. We do not accept any liability for loss, injury or damage, which may result from its use.



MDSS GmbH  
Schiffaraben 41  
30175 Hanover  
Germany



## SAF SAFETY DATA SHEET

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

### 1.1 Product Identifier: SAF

(Sodium Acetate-Acetic Acid-Formalin Solution)  
145500, 145501 1461, 146500, 146501, 108920, 149920, 249400, 901000, 906000

**1.2 Relevant identified uses of the substance or mixture and uses advised against:** laboratory chemical (in vitro diagnostic)

### 1.3 Details of the supplier of the Safety Data Sheet:

Apacor Limited, Unit 5 Sapphire Centre, Fishponds Road, Wokingham, Berkshire, RG41 2QL, United Kingdom  
+44 (0) 118 979 5566  
[technical@apacor.com](mailto:technical@apacor.com)

### 1.4 Emergency telephone number:

+44 (0)118 979 5566  
(Monday-Friday 0900-1700 excluding UK Public Holidays)

## SECTION 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Acute toxicity, Oral (Category 4), H302  
Skin sensitisation (Category 1), H317  
Acute toxicity, Inhalation (Category 4), H332  
Germ Cell Mutagenicity (Category 2), H341  
Carcinogenicity (Category 1B), H350

See Section 16 for the full text of H-Statements mentioned in this Section.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]



**Pictogram**

**Signal word**

**Danger**

### Hazard statement(s)

H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H332 Harmful if inhaled.  
H341 Suspected of causing genetic defects.  
H350 May cause cancer.  
Contains Formaldehyde

### Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician  
P308 + P313 - IF exposed or concerned: Get medical advice/ attention

### 2.3 Other hazards

No data available.

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component: **Formaldehyde**

CAS No: 50-00-0

EC No: 200-001-8

Index No: 605-001-00-5

Classification: Acute Tox. 3 (H301 + H311 + H331); Skin Corr. 1B (H314); Skin Sens. 1 (H317); Muta. 2 (H341); Carc. 1B (H350); Concentration: < 5%

Component: **Methanol**

CAS No: 67-56-1

EC No: 200-659-6

Index No: 603-001-00-x

Registration No: 01-2119433307-44-xxxx

Classification: Flam. Liq. 2 (H225); Acute Tox 3 (H301 + H311 + H331); STOT SE 1 (H370)

Concentration: < 1%

Component: **Acetic Acid**

CAS No: 64-19-7

EC No: 200-580-7

Index No: -

Registration No: -

Classification: Skin Corr. 1A (H314) ; Flam. Liq 3 (H226)

Concentration: ≤ 2%

## SECTION 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact:** Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothes and shoes.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (Section 2.2) and/or in Section 11.

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: treat symptomatically.

## SECTION 5 FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus and full protective gear.

**SECTION 6 ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see Section 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**6.3 Methods and material for containment and cleaning up**

Contain spillage and place in container for disposal according to local regulations (see Section 13). Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal, see Section 13.

**SECTION 7 HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition—no smoking. Take measures to prevent the build-up of electrostatic charge. For precautions, see Section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**7.3 Specific end use(s)**

No other specific uses are specified apart from those listed in Section 1.2.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

	Formaldehyde 50-00-0	Methanol 67-56-1	Acetic Acid 64-19-7
<b>Austria</b>	STEL: 0.5 ppm STEL: 0.6 mg/m <sup>3</sup> TWA: 0.5 ppm TWA: 0.6 mg/m <sup>3</sup>	STEL: 800 ppm STEL: 1040 mg/m <sup>3</sup> TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	STEL: 20 ppm STEL: 50 mg/m <sup>3</sup> TWA: 10 ppm TWA: 25 mg/m <sup>3</sup>
<b>Belgium</b>	STEL: 0.3 ppm STEL: 0.38 mg/m <sup>3</sup>	STEL: 250 ppm STEL: 333 mg/m <sup>3</sup> TWA: 200 ppm TWA: 266 mg/m <sup>3</sup>	STEL: 15 ppm STEL: 38 mg/m <sup>3</sup> TWA: 10 ppm TWA: 25 mg/m <sup>3</sup>

	Formaldehyde 50-00-0	Methanol 67-56-1	Acetic Acid 64-19-7
<b>Denmark</b>	STEL: 0.3 ppm STEL: 0.4 mg/m <sup>3</sup> TWA: 0.3 ppm TWA: 0.4 mg/m <sup>3</sup>	STEL: 400 ppm STEL: 520 mg/m <sup>3</sup> TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	STEL: 20 ppm STEL: 50 mg/m <sup>3</sup> TWA: 10 ppm TWA: 25 mg/m <sup>3</sup>
<b>France</b>	TWA: 0.5 ppm STEL: 1 ppm	STEL: 1000 ppm STEL: 1300 mg/m <sup>3</sup> TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	STEL: 10 ppm STEL: 25 mg/m <sup>3</sup>
<b>Germany</b>	STEL: 0.6 ppm STEL: 0.74 mg/m <sup>3</sup> TWA: 0.3 ppm TWA: 0.37 mg/m <sup>3</sup>	STEL: 800 ppm STEL: 1080 mg/m <sup>3</sup> TWA: 200 ppm TWA: 270 mg/m <sup>3</sup>	STEL: 20 ppm STEL: 50 mg/m <sup>3</sup> TWA: 10 ppm TWA: 25 mg/m <sup>3</sup>
<b>Ireland</b>	STEL: 2 ppm STEL: 2.5 mg/m <sup>3</sup> TWA: 2 ppm TWA: 2.5 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	STEL: 15 ppm STEL: 37 mg/m <sup>3</sup> TWA: 10 ppm TWA: 25 mg/m <sup>3</sup>
<b>Italy</b>		TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 25 mg/m <sup>3</sup>
<b>Poland</b>	STEL: 1 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>	STEL: 300 mg/m <sup>3</sup> TWA: 100 mg/m <sup>3</sup>	STEL: 30 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup>
<b>Portugal</b>	STEL: 0.3 ppm	STEL: 250 ppm TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	STEL: 15 ppm TWA: 10 ppm TWA: 25 mg/m <sup>3</sup>
<b>Spain</b>	STEL: 0.3 ppm STEL: 0.37 mg/m <sup>3</sup>	STEL: 250 ppm STEL: 333 mg/m <sup>3</sup> TWA: 200 ppm TWA: 266 mg/m <sup>3</sup>	STEL: 15 ppm STEL: 37 mg/m <sup>3</sup> TWA: 10 ppm TWA: 25 mg/m <sup>3</sup>
<b>Sweden</b>	STEL: 0.6 ppm STEL: 0.74 mg/m <sup>3</sup> TWA: 0.3 ppm TWA: 0.37 mg/m <sup>3</sup>	STEL: 250 ppm STEL: 350 mg/m <sup>3</sup> TWA: 200 ppm TWA: 250 mg/m <sup>3</sup>	STEL: 10 ppm STEL: 25 mg/m <sup>3</sup> TWA: 5 ppm TWA: 13 mg/m <sup>3</sup>
<b>The Netherlands</b>	STEL: 0.5 mg/m <sup>3</sup> TWA: 0.15 mg/m <sup>3</sup>	TWA: 133 mg/m <sup>3</sup>	
<b>UK</b>	STEL: 2 ppm STEL: 2.5 mg/m <sup>3</sup> TWA: 2 ppm TWA: 2.5 mg/m <sup>3</sup>	STEL: 250 ppm STEL: 333 mg/m <sup>3</sup> TWA: 200 ppm TWA: 266 mg/m <sup>3</sup>	

**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**8.2.2 Personal protective equipment**

(a) Eye/face protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

(b) Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves should satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

(c) Body Protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

(d) Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use

## SAF SAFETY DATA SHEET

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### 8.2.3 Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a) **Appearance** aqueous solution Form: colourless liquid

b) **Odour** characteristic

c) **Odour threshold** no data available

d) **pH** no data available

e) **Melting point / freezing point** no data available

f) **Initial boiling point and boiling range** 102°C

g) **Flash point** >105°C

h) **Evaporation rate** no data available

i) **Flammability (solid, gas)** no data available

j) **Upper/lower flammability or explosive limits** no data available

k) **Vapour pressure** no data available

l) **Vapour density** >1

m) **Relative density** 1.071

n) **Solubility (ies)** Soluble in water

o) **Partition coefficient: n-octanol/water** no data available

p) **Auto-ignition temperature** no data available

q) **Decomposition temperature** no data available

r) **Viscosity** no data available

s) **Explosive properties** no data available

t) **Oxidising properties** no data available

### 9.2 Other information

No data available.

## SECTION 10 STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

No materials to be mentioned in particular.

### 10.6 Hazardous decomposition products

Carbon oxides.

## SECTION 11 TOXICOLOGICAL INFORMATION

### 11.1 Information of toxicological effects

**Acute toxicity:** no data available

**Skin corrosion/irritation:** no data available

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitisation:** no data available

**Germ cell mutagenicity:** no data available

**Carcinogenicity:** IARC: 1 - Group 1: Carcinogenic to humans (Formaldehyde)

**Reproductive toxicity:** no data available

**Specific target organ toxicity - single exposure:** no data available

**Specific target organ toxicity - repeated exposure:** no data available

**Aspiration hazard:** no data available

### Additional Information

Chemical Name	
Formaldehyde	LD50 oral 600 mg/kg (Rat) LD50 dermal 270 mg/kg (Rabbit) LC50 inhalation 0.578 mg/L (Rat) 4 h
Methanol	LD50 oral - rat - 5628 mg / kg LC50 inhalation - rat - 4h – 83.2 mg/l/4h
Acetic Acid	LD50 oral 3310 mg/kg (Rat) LD50 dermal 1060 mg/kg (Rabbit) LC50 inhalation 11.4 mg/L (Rat) 4 h

## SECTION 12 ECOLOGICAL INFORMATION

### 12.1 Toxicity

Ecotoxicity effects: contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Toxicity to Fish	
Formaldehyde	0.032 - 0.226: 96 h Oncorhynchus mykiss mL/L LC50 flow-through 100- 136: 96 h Oncorhynchus mykiss mg/L LC50 static 1510: 96 h Lepomis macrochirus µg/L LC50 static 22.6 - 25.7: 96 h Pimephales promelas mg/L LC50 flow-through 23.2 - 29.7: 96 h Pimephales promelas mg/L LC50 static 41: 96 h Brachydanio rerio mg/L LC50 static
Methanol	LC50 - Pimephales promelas – 28200 mg / L 96h
Acetic Acid	75: 96 h Lepomis macrochirus mg/L LC50 static 79: 96 h Pimephales promelas mg/L LC50 static

### Toxicity to Daphnia and other Aquatic Invertebrates

Formaldehyde	11.3 - 18: 48 h Daphnia magna mg/L EC50 Static 2: 48 h Daphnia magna mg/L LC50
Methanol	EC50 - Daphnia magna - >10000 mg/l
Acetic Acid	47: 24 h Daphnia magna mg/L EC50 65: 48 h Daphnia magna mg/L EC50 Static

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

Chemical Name	log Pow
Formaldehyde	0.35
Methanol	-0.77
Acetic Acid	0

### 12.4 Mobility in soil

No data available.



## SAF SAFETY DATA SHEET

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

No data available.

### 12.7 Additional information

None.

## SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product:** Dispose of waste in accordance with all federal, state, and local regulations.

**Contaminated packaging:** Dispose of as unused product.

## SECTION 14 TRANSPORT INFORMATION

**IATA/DOT/IMDG/TDG:** Not regulated.

**14.1 UN number:** -

**14.2 UN proper shipping name:** -

**14.3 Transport hazard class(es):** -

**14.4 Packing group:** -

**14.5 Environmental hazards:** -

**14.6 Special precautions for user:** -

## SECTION 15 REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

### 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for this product.

## SECTION 16 OTHER INFORMATION

### Full text of H-Statements referred to in Sections 2 and 3

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H370 Causes damage to organs.

Acute Tox. Acute toxicity

Carc. Carcinogenicity

Flam. Liq. Flammable liquids

Muta. Germ Cell Mutagenicity

Skin Corr. Skin corrosion

Skin Sens. Skin sensitisation

STOT SE Specific target organ toxicity - single exposure

Amended sections are indicated by a line in the border.

The information supplied in this SDS is correct to the best of our knowledge. We do not accept any liability for loss, injury or damage, which may result from its use.



MDSS GmbH  
Schiffaraben 41  
30175 Hanover  
Germany

## TRITON X SOLUTION SAFETY DATA SHEET

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

### 1.1 Product Identifier: 1472, 172018

#### TRITON X Solution

Used at concentration of  $\leq 0.1\%$  in: 145300, 145400, 145420, 145500, 145501, 145800, 145900, 146300, 146400, 146500, 146501, 108900, 108910, 108920, 108935, 148998, 149910, 149920, 151000, 249400, 900000, 901000, 903000, 905000, 906000, 908000

**1.2 Relevant identified uses of the substance or mixture and uses advised against:** for laboratory use (in vitro diagnostic).

### 1.3 Details of the supplier of the Safety Data Sheet:

Apacor Limited, Unit 5 Sapphire Centre, Fishponds Road, Wokingham, Berkshire, RG41 2QL, United Kingdom  
+44 (0) 118 979 5566  
[technical@apacor.com](mailto:technical@apacor.com)

### 1.4 Emergency telephone number:

+44 (0)118 979 5566  
(Monday-Friday 0900-1700 excluding UK Public Holidays)

## SECTION 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Serious eye damage (Category1), H318

See Section 16 for the full text of H-Statements mentioned in this Section.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]



**Pictogram**

**Signal word**

**Danger**

### Hazard statement(s)

H318 Causes serious eye damage

### Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P313 Get medical advice/attention.

See Section 16 for the full text of H-Statements mentioned in this Section.

### 2.3 Other hazards

None known.

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component: **Triton X-100** (concentration 10–20%) (included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No 1907/2006 (REACH))

CAS No: 9002-93-1

EC No: -

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

Classification: Acute Tox. 4 (H302); Serious Eye Dam. 1 (H318)

Concentration: 5–10%

See Section 16 for the full text of H-Statements mentioned in this Section.

## SECTION 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Take off immediately all contaminated clothing. Rinse skin with water/shower.

**In case of eye contact:** rinse out with plenty of water. Immediately consult an ophthalmologist.

**If swallowed:** immediately make victim drink water (2 glasses at most). Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

Irritation and corrosion. Risk of serious damage to eyes.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5 FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media: Use water spray, foam, dry chemical or carbon dioxide. (Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.)

Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given.

### 5.2 Special hazards arising from the substance or mixture

Not combustible. Ambient fire may liberate hazardous vapours.

### 5.3 Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency

**TRITON X SOLUTION SAFETY DATA SHEET**

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

procedures, consult an expert.

Advice for emergency responders: Protective equipment see Section 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**6.3 Methods and material for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal, see Section 13.

**SECTION 7 HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid inhalation of vapour or mist. For precautions see Section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Tightly closed. Recommended storage temperature see product label.

**7.3 Specific end use(s)**

No other specific uses are specified apart from those listed in Section 1.2.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**8.2.2 Personal protective equipment**

(a) Eye/face protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

(b) Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves should satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

(c) Body Protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

(d) Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator

with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**8.2.3 Environmental exposure controls**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

**a) Appearance** Form: clear, liquid; Colour: light yellow

**b) Odour** no data available

**c) Odour threshold** no data available

**d) pH** 9.7

**e) Melting point / freezing point** approx. 6°C

**f) Initial boiling point and boiling range** 200°C

**g) Flash point** 251°C

**h) Evaporation rate** no data available

**i) Flammability (solid, gas)** no data available

**j) Upper/lower flammability or explosive limits** no data available

**k) Vapour pressure** <1 hPa at 25°C

**l) Vapour density** no data available

**m) Relative density** 1.070 g/cm<sup>3</sup>

**n) Solubility (ies)** Soluble in water

**o) Partition coefficient: n-octanol/water** no data available

**p) Auto-ignition temperature** no data available

**q) Decomposition temperature** no data available

**r) Viscosity** no data available

**s) Explosive properties** no data available

**t) Oxidising properties** no data available

**9.2 Other information** no data available

**SECTION 10 STABILITY AND REACTIVITY****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

No data available.

**10.5 Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents.

**10.6 Hazardous decomposition products**

Other decomposition products—no data available. In the event of fire: see Section 5.



**TRITON X SOLUTION SAFETY DATA SHEET**

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

**SECTION 11 TOXICOLOGICAL INFORMATION****11.1 Information of toxicological effects****Acute toxicity:** no data available**Skin corrosion/irritation:** no data available**Serious eye damage/eye irritation:** no data available**Respiratory or skin sensitisation:** no data available**Germ cell mutagenicity:** no data available**Carcinogenicity:** IARC: no component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.**Reproductive toxicity:** no data available**Specific target organ toxicity - single exposure:** no data available**Specific target organ toxicity - repeated exposure:** no data available**Aspiration hazard:** no data available**Additional information:** RTECS: not available. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.**11.2 Further information**

Triton X-100

Acute oral toxicity: LD50 Rat: 1,800 mg/kg (RTECS)

Germ cell mutagenicity: Genotoxicity in vitro Mutagenicity (mammal cell test): Mouse lymphoma test Result: negative

**SECTION 12 ECOLOGICAL INFORMATION****12.1 Toxicity**

No data available.

**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**12.6 Other adverse effects**

Discharge into the environment must be avoided.

Components: Triton X-100

Toxicity to fish

LC50 Lepomis macrochirus: 2,800 - 3,200 µg/l; 96 h

Toxicity to daphnia and other aquatic invertebrates

LC50 Daphnia magna: 11.2 mg/l; 48 h

**12.7 Additional information**

No data available.

**SECTION 13 DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product:** Offer surplus and non-recyclable solutions to a licensed disposal company.**Contaminated packaging:** Dispose of as unused product.**SECTION 14 TRANSPORT INFORMATION****IATA/DOT/IMDG/TDG:** Not regulated.**14.1 UN number:** -**14.2 UN proper shipping name:** -**14.3 Transport hazard class(es):** -**14.4 Packing group:** -**14.5 Environmental hazards:** -**14.6 Special precautions for user:** -**SECTION 15 REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Substances of very high concern (SVHC): This product does contain substances of very high concern above the respective regulatory limit (&gt;0.1% w/w), Regulation (EC) No 1907/2006 (REACH), Article 57).

Contains: Triton X-100.

**15.2 Chemical Safety Assessment**

No chemical safety assessment has been carried out for this product.

**SECTION 16 OTHER INFORMATION****Full text of H-Statements referred to in Sections 2 and 3**

H302 Harmful if swallowed

H318 Causes serious eye damage

Acute Tox. Acute Toxicity

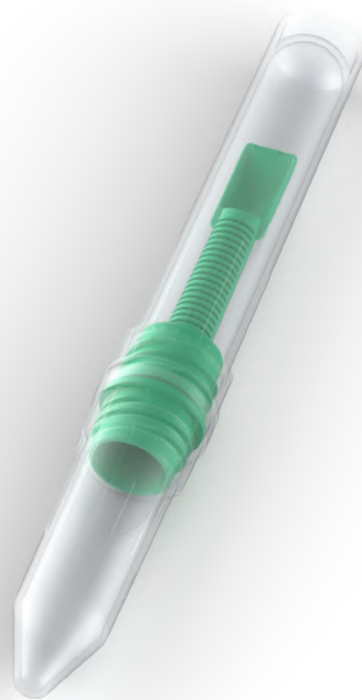
Serious Eye Dam. Serious Eye Damage

Amended sections are indicated by a line in the border.

The information supplied in this SDS is correct to the best of our knowledge. We do not accept any liability for loss, injury or damage, which may result from its use.



MDSS GmbH  
Schiffaraben 41  
30175 Hanover  
Germany



<b><u>Code</u></b>	<b><u>Product</u></b>
146000	Mini Parasep®
146003	Mini Parasep® Apafix™
146004	Mini Parasep® Apafix™ + 40ml Ethyl Acetate
146005	Mini Parasep® Apafix™
146200	Mini Parasep® Formalin
146300	Mini Parasep® Formalin & Triton X
146400	Mini Parasep® Formalin & Triton X + 40ml Ethyl Acetate
146500	Mini Parasep® SAF & Triton X
146501	Mini Parasep® SAF & Triton X + 40ml Ethyl Acetate

*Discard in accordance with your standard and local operating procedures for clinical waste.*

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Products can be ordered direct from Apacor or from an appointed distributor  
Visit our website for all the latest information [www.apacor.com](http://www.apacor.com) or e-mail: [orders@apacor.com](mailto:orders@apacor.com)

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