## **SAFETY DATA SHEET**



SDV columns, Less than 10 ml

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

#### 1.1 Product identifier

Product name : SDV columns, Less than 10 ml

Part no. : ☑DA080503, SDA080503LS, SDA080505, SDA080505LS, SDA080505-SIRIGEN,

SDA080510, SDA0805101E7-TESA, SDA080510LS, SDA080520, SDM050303, SDM050305, SDM0525031E2, SDM0525031E3, SDM0525031E4, SDM0525031E5, SDM0525035E2, SDM052503LIM, SDM052503LIS, SDM052505LIM, SDPOTFM05999

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Malytical chemistry.

GPC/SEC column

SDA080503 SDV, 8 x 50 mm, 3µm, guard 2.0 ml

SDA080503LS SDV Lux, 8 x 50 mm, 3µm, guard 2.0 ml

SDA080505 SDV, 8 x 50 mm, 5µm, guard 2.0 ml

SDA080505LS SDV Lux, 8 x 50 mm, 5µm, guard 2.0 ml

SDA080505-SIRIGEN SDV Sirigen, 8 x 50 mm, 5µm, guard 2.0 ml

SDA080510 SDV, 8 x 50 mm, 10µm, guard 2.0 ml

SDA0805101E7-TESA SDV Tesa 10000000Å, 8 x 50 mm, 10µm 2.0 ml

SDA080510LS SDV Lux, 8 x 50 mm, 10µm, guard 2.0 ml

SDV, 8 x 50 mm, 20µm, guard SDA080520 2.0 ml SDM050303 SDV, 4.6 x 30 mm, 3µm, guard 0.5 ml SDM050305 SDV, 4.6 x 30 mm, 5µm, guard 0.5 ml SDM0525031E2 SDV 100Å, 4.6 x 250 mm, 3µm 4.0 ml SDV 1000Å, 4.6 x 250 mm, 3µm 4.0 ml SDM0525031E3 SDV 10000Å, 4.6 x 250 mm, 3µm 4.0 ml SDM0525031E4 SDM0525031E5 SDV 100000Å, 4.6 x 250 mm, 3µm 4.0 ml SDM0525035E2 SDV 500Å, 4.6 x 250 mm, 3µm 4.0 ml SDM052503LIM SDV linear M, 4.6 x 250 mm, 3µm 4.0 ml SDM052503LIS SDV linear S, 4.6 x 250 mm, 3µm 4.0 ml

SDM052505LIM SDV linear M, 4.6 x 250 mm, 5µm 4.0 ml SDPOTFM05999 Custom column, SDV/POLEFIN, THF, It 10mL

Uses advised against : None known.

#### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH Hewlett-Packard-Str. 8 76337 Waldbronn Germany 0800 603 1000

e-mail address of person : pdl-msds\_author@agilent.com

responsible for this SDS

#### 1.4 Emergency telephone number

Emergency telephone number (with hours of

: CHEMTREC®: +(44)-870-8200418

operation)

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#### **SECTION 2: Hazards identification**

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture (encapsulated in article)

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

FLAMMABLE LIQUIDS H225 Category 2 H319 SERIOUS EYE DAMAGE/EYE IRRITATION Category 2 H351 CARCINOGENICITY Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE Category 3 H335

(Respiratory tract irritation)

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

**Hazard pictograms** 







Signal word Danger

**Hazard statements** H225 - Highly flammable liquid and vapour.

> H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer.

#### **Precautionary statements**

**Prevention** P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

Response : P308 + P313 - IF exposed or concerned: Get medical advice or attention. **Storage** : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

**Disposal** P501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

**Hazardous ingredients** : tetrahydrofuran

Supplemental label

elements

May form explosive peroxides.

Annex XVII - Restrictions : Not applicable. on the manufacture,

placing on the market and use of certain dangerous substances, mixtures and articles

#### **Special packaging requirements**

**Tactile warning of** 

danger

: Not applicable.

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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#### **SECTION 2: Hazards identification**

Other hazards which do

: None known.

not result in classification

## **SECTION 3: Composition/information on ingredients**

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

**3.1 Substances** : Mixture (encapsulated in article)

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
tetrahydrofuran	EC: 203-726-8 CAS: 109-99-9 Index: 603-025-00-0	≥75 - ≤90	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 EUH019 See Section 16 for the full text of the H statements declared above.	Eye Irrit. 2, H319: C ≥ 25% STOT SE 3, H335: C ≥ 25%	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

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: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation** 

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** 

: Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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#### **SECTION 4: First aid measures**

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

#### Potential acute health effects

Eye contact : Causes serious eye irritation.Inhalation : May cause respiratory irritation.

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact**: Adverse symptoms may include the following:

irritation dryness cracking

**Ingestion**: No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

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

Hazards from the substance or mixture

: Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. May form explosive peroxides. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous combustion products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide

#### 5.3 Advice for firefighters

Special precautions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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#### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

## **6.2 Environmental precautions**

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

Methods for cleaning up

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

**Storage** 

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

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## **SECTION 7: Handling and storage**

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

#### 7.3 Specific end use(s)

**Recommendations**: Industrial applications, Professional applications.

Industrial sector specific : Not available.

solutions

### **SECTION 8: Exposure controls/personal protection**

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

#### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV: 50 ppm 8 hours. OELV: 150 mg/m³ 8 hours. OELV: 100 ppm 15 minutes. OELV: 300 mg/m³ 15 minutes.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
	NAOSH (Ireland, 1/2011)  BMGV: 2 mg/l, THF [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

## Recommended monitoring procedures

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
tetrahydrofuran	DNEL	Long term Oral	1.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	12.6 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	13 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	52 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	72.4 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	75 mg/m³	General population	Local
	DNEL	Short term Inhalation	96 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	150 mg/m <sup>3</sup>	General population	Local

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SECTION 8: Exposure controls/	personal prot	ection					
DNEL	Long term Inhalation	150 mg/m³	Workers	Local			
DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	Workers	Local			

#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

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

#### **Appearance**

Physical state : Solid. (containing flammable liquid)

Colour : Not available.

Odour : Not available.

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## SECTION 9: Physical and chemical properties

Odour threshold Melting point/freezing

point

Not available.Not available.

Initial boiling point and

initiai bolling

: Not available.

boiling range

Flammability : Contains: Flammable liquid

Upper/lower flammability

or explosive limits

: Not available.

Flash point

: Closed cup: -18 to 23°C [Based on solvent.]

Auto-ignition temperature

Ingredient name°CMethodtetrahydrofuran215DIN 51794

Decomposition temperature

: Not available.

pH : Not available.Viscosity : Not available.

Solubility(ies) :

Media	Result
Mobile phase	Soluble
Stationary phase	Insoluble

Partition coefficient: n-

octanol/water

: Not applicable.

**Vapour pressure** 

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
tetrahydrofuran	127.51036	17	-	-	-	-

Evaporation rate : Not available.

Relative density : Not available.

Vapour density : Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

#### 9.2 Other information

No additional information.

## **SECTION 10: Stability and reactivity**

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

: Hazardous reactions or instability may occur under certain conditions of storage or use.

Conditions may include the following:

extended storage

Reactions may include the following: formation of explosive peroxides

**10.4 Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

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### **SECTION 10: Stability and reactivity**

10.5 Incompatible materials

: Reactive or incompatible with the following materials:

oxidising materials

Reactive or incompatible with the following materials: acids.

10.6 Hazardous decomposition products

: May form explosive peroxides.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
tetrahydrofuran	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	1650 mg/kg	-

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapours)	
tetrahydrofuran	N/A	N/A	N/A	53.6605	N/A

**Irritation/Corrosion** 

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

**Sensitiser** 

**Conclusion/Summary**: Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

Reproductive toxicity

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
SDV columns, Less than 10 ml	Category 3	-	Respiratory tract irritation
tetrahydrofuran	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

**Inhalation** : May cause respiratory irritation.

**Ingestion**: No known significant effects or critical hazards.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation.

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## **SECTION 11: Toxicological information**

**Eye contact** : Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion : No specific data.

**Skin contact** : Adverse symptoms may include the following:

dryness cracking

**Eye contact** : Adverse symptoms may include the following:

pain or irritation

watering redness

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

**Potential immediate** 

effects

: Not available.

**Potential delayed** 

effects

: Not available.

Long term exposure

**Potential immediate** 

effects

: Not available.

**Potential delayed** 

effects

: Not available.

#### Potential chronic health effects

**Conclusion/Summary**: Not available.

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity : No known significant effects or critical hazards.Reproductive toxicity : No known significant effects or critical hazards.

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
tetrahydrofuran	Acute LC50 2160000 µg/l Fresh water Chronic NOEC 367 mg/l Fresh water	Fish - <i>Pimephales promelas</i> Fish - <i>Pimephales promelas</i> - Embryo	96 hours 33 days

#### 12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
tetrahydrofuran	-	-	Inherent

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## **SECTION 12: Ecological information**

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
tetrahydrofuran	0.45	-	Low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

## **Hazardous waste**

**Packaging** 

**Methods of disposal** 

: The classification of the product may meet the criteria for a hazardous waste.

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

#### **Special precautions**

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

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## **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

#### **Additional information**

Remarks: Special provisions

ADR: 216 IATA: A46 IMDG: 216

14.6 Special precautions

for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

## **SECTION 15: Regulatory information**

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

**Substances of very high concern** 

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product / Ingredient name	Identifiers	Designation [Usage]
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Label : Not applicable.

#### Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

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SDV columns, Less than 10 ml

## **SECTION 15: Regulatory information**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

**Category** 

P<sub>5</sub>c

#### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

**Eurasian Economic** 

Union Japan

: Russian Federation inventory: All components are listed or exempted.

: Japan inventory (CSCL): All components are listed or exempted.

Japan inventory (ISHL): All components are listed or exempted.

New Zealand : All components are listed or exempted.

Philippines : Not determined.

Republic of Korea : All components are listed or exempted.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : All components are listed or exempted.
United States : All components are active or exempted.

Viet Nam : Not determined.

#### 15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments might still

be required.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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## **SECTION 16: Other information**

Classification	Justification
Flam. Liq. 2, H225 Eye Irrit. 2, H319 Carc. 2, H351	Expert judgment Expert judgment Expert judgment
STOT SE 3, H335	Expert judgment

#### **Full text of abbreviated H statements**

H319	Highly flammable liquid and vapour. Causes serious eye irritation. May cause respiratory irritation.
H351	Suspected of causing cancer.
EUH019	May form explosive peroxides.

#### Full text of classifications [CLP/GHS]

Carc. 2	CARCINOGENICITY - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
	Category 3

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revision

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#### **Notice to reader**

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