## SAFETY DATA SHEET



SDV Preparative Columns, Greater than 30 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 Preparative Columns, Greater than 30 ml

: SDP20301E2, SDP20301E3, SDP20301E4, SDP20301E5, SDP20301E6, Part no.

SDP20305E1, SDP20305E2, SDP2030LIS, SDPOTFP20999

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

**Identified uses** : Analytical chemistry.

GPC/SEC column

SDP20301E2 SDV 100Å, 20 x 300 mm, 60-80 ml SDP20301E3 SDV 1000Å, 20 x 300 mm, 60-80 ml SDP20301E4 SDV 10000Å, 20 x 300 mm, 60-80 ml SDP20301E5 SDV 100000Å, 20 x 300 mm, 60-80 ml SDV 1000000Å, 20 x 300 mm, 60-80 ml SDP20301E6 SDV 50Å, 20 x 300 mm, 60-80 ml SDP20305E1 SDV 500Å, 20 x 300 mm, 60-80 ml SDP20305E2 SDP2030LIS SDV linear S, 20 x 300 mm, 60-80 ml

Custom column, SDV/POLEFIN, THF, gt 30mL SDPOTFP20999

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)

### **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]

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

Date of issue/Date of revision : 15/03/2024 Date of previous issue : 25/07/2023 Version: 2 1/14 SDV Preparative Columns, Greater than 30 ml

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

#### 2.2 Label elements

**Hazard pictograms** 







Signal word Danger

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

> 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. : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. **Storage** 

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

and international regulations.

**Hazardous ingredients** 

Supplemental label

elements

: tetrahydrofuran

: 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

Other hazards which do

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

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

: None known.

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)

Date of issue/Date of revision : 15/03/2024 Date of previous issue : 25/07/2023 Version: 2

SDV Preparative Columns, Greater than 30 ml

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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
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

**Eye contact** : 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.

### 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

Date of issue/Date of revision : 15/03/2024 Date of previous issue : 25/07/2023 Version : 2 3/14

SDV Preparative Columns, Greater than 30 ml

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

**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 dioxide

#### 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.

### **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".

Date of issue/Date of revision : 15/03/2024 Date of previous issue : 25/07/2023 Version : 2 4/14

SDV Preparative Columns, Greater than 30 ml

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

# **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**

<u> </u>	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

Date of issue/Date of revision : 15/03/2024 Date of previous issue : 25/07/2023 Version : 2 5/14

SDV Preparative Columns, Greater than 30 ml

### **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
	DNEL	Long term Inhalation	150 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	Workers	Local

### **PNECs**

No PNECs available

### 8.2 Exposure controls

Date of issue/Date of revision : 15/03/2024 Date of previous issue : 25/07/2023 Version : 2 6/14

SDV Preparative Columns, Greater than 30 ml

### SECTION 8: Exposure controls/personal protection

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.

Odour threshold : Not available.

Melting point/freezing : Not available.

point

Initial boiling point and : Not available.

boiling range

Flammability : Contains: Flammable liquid

**Upper/lower flammability**: Not available.

or explosive limits

Date of issue/Date of revision : 15/03/2024 Date of previous issue : 25/07/2023 Version : 2 7/14

SDV Preparative Columns, Greater than 30 ml

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

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

Auto-ignition : Ingredient name 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

	Vapoui	Fiessui	sure at 20 C Vapou		our press	ui pressure at 30 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.

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.

Date of issue/Date of revision : 15/03/2024 Date of previous issue : 25/07/2023 Version : 2 8/14

SDV Preparative Columns, Greater than 30 ml

### **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)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
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
<b>t</b> etrahydrofuran	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.

**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:

irritation dryness cracking

Date of issue/Date of revision : 15/03/2024 Date of previous issue : 25/07/2023 Version : 2 9/14

SDV Preparative Columns, Greater than 30 ml

### **SECTION 11: Toxicological information**

**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
Reproductive toxicity

No known significant effects or critical hazards.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
	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

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
tetrahydrofuran	0.45	-	Low

### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

**Mobility** 

: Not available.

Date of issue/Date of revision : 15/03/2024 Date of previous issue : 25/07/2023 Version : 2 10/14

SDV Preparative Columns, Greater than 30 ml

### **SECTION 12: Ecological information**

#### 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.

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN3175	UN3175	UN3175
14.2 UN proper shipping name	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Tetrahydrofuran)	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Tetrahydrofuran)	Solids containing flammable liquid, n.o.s. (Tetrahydrofuran)
14.3 Transport hazard class(es)	4.1	4.1	4.1
14.4 Packing group	II	II	II
14.5 Environmental hazards	No.	No.	No.

### **Additional information**

Date of issue/Date of revision : 15/03/2024 Date of previous issue : 25/07/2023 Version : 2 11/14

SDV Preparative Columns, Greater than 30 ml

### **SECTION 14: Transport information**

ADR/RID **Hazard identification number** 40

**Limited quantity** 1 kg

Special provisions 216, 274, 601

Tunnel code (E)

**IMDG** : Emergency schedules F-A, S-I

Special provisions 216, 274

**IATA Quantity limitation** Passenger and Cargo Aircraft: 15 kg. Packaging instructions: 445.

Cargo Aircraft Only: 50 kg. Packaging instructions: 448. Limited Quantities - Passenger

Aircraft: 5 kg. Packaging instructions: Y441.

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

: Not available.

instruments

### **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]
DV Preparative Columns, Greater than 30 ml		3

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**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

**Category** 

P5c

### **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

Date of issue/Date of revision : 15/03/2024 Date of previous issue : 25/07/2023 Version 12/14

SDV Preparative Columns, Greater than 30 ml

### **SECTION 15: Regulatory information**

**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.

: Not determined. **Viet Nam** 

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]

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

### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
EUH019	May form explosive peroxides.

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

Date of issue/Date of revision : 15/03/2024 Date of previous issue : 25/07/2023 Version 13/14

SECTION 16: Other information

Carc. 2
Eye Irrit. 2
Flam. Liq. 2
STOT SE 3

CARCINOGENICITY - Category 2
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
FLAMMABLE LIQUIDS - Category 2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

Category 3

Date of issue/ Date of

revision

: 15/03/2024

Date of previous issue : 25/07/2023

Version : 2

**Notice to reader** 

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Date of issue/Date of revision : 15/03/2024 Date of previous issue : 25/07/2023 Version : 2 14/14