Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice

DMT removal reagent for DNA synthesis

article number: **2257**
Version: **GHS 2.0 en**
Replaces version of: 2016-11-17
Version: (GHS 1)

date of compilation: 2016-11-17
Revision: 2022-02-18

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

1.1 Product identifier

Identification of the substance — **DMT removal reagent** for DNA synthesis

Article number — 2257

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

Relevant identified uses: — Laboratory chemical
Laboratory and analytical use

Uses advised against: — Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG
Schoemperlenstr. 3-5
D-76185 Karlsruhe
Germany

Telephone:+49 (0) 721 - 56 06 0
Telefax: +49 (0) 721 - 56 06 149
e-mail: sicherheit@carlroth.de
Website: www.carlroth.de

Competent person responsible for the safety data sheet: — :Department Health, Safety and Environment

e-mail (competent person): — **sicherheit@carlroth.de**

1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
NSW Poisons Information Centre Childrens Hospital	Hawkesbury Road	2145 West-mead, NSW	131126	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Cat-egory	Hazard class and category	Hazard statement
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.6	Carcinogenicity	2	Carc. 2	H351
3.8R	Specific target organ toxicity - single exposure (respirat-ory tract irritation)	3	STOT SE 3	H335
3.8D	Specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336

For full text of abbreviations: see SECTION 16

2.2 Label elements

Labelling

Signal word **Danger**

Pictograms

GHS05, GHS07, GHS08

Hazard statements

H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer

Precautionary statements

Precautionary statements - prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P280	Wear protective gloves

Precautionary statements - response

P302+P352	IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Precautionary statements - storage

P403+P233	Store in a well-ventilated place. Keep container tightly closed

Precautionary statements - disposal

P501	Dispose of contents/container to industrial combustion plant

For professional users only

Hazardous ingredients for labelling: Dichloromethane, Trichloroacetic acid

2.3 Other hazards

Results of PBT and vPvB assessment

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

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Dichloromethane	CAS No 75-09-2	97	Skin Irrit. 2 / H315 Eye Irrit. 2A / H319 Carc. 2 / H351 STOT SE 3 / H336		IARC: 2A
Trichloroacetic acid	CAS No 76-03-9	3	Skin Corr. 1A / H314 STOT SE 3 / H335		IARC: 2B

Notes

IARC: 2A: IARC group 2A: probably carcinogenic to humans (International Agency for Research on Cancer)

IARC: 2B: IARC group 2B: possibly carcinogenic to humans (International Agency for Research on Cancer)

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

4.2 Most important symptoms and effects, both acute and delayed

Irritation, Nausea, Vomiting, Cough, Vertigo, Dyspnoea, Drowsiness, Dizziness, Narcosis, Risk of blindness, Risk of serious damage to eyes, Cough, Dyspnoea

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings
water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO_2)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO_2), Hydrogen chloride (HCl), Hydrogen halides (HX)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

6.2 Environmental precautions

Keep away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid exposure. Provide adequate ventilation as well as local exhaustion at critical locations. When not in use, keep containers tightly closed.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed.

Incompatible substances or mixtures

Observe hints for combined storage.

Protect against external exposure, such as

direct light irradiation, UV-radiation/sunlight

Consideration of other advice:

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
AU	methylene chloride (dichloromethane)	75-09-2	WES	50	174						WES
AU	trichloroacetic acid	76-03-9	WES	1	6.7						WES

Notation

Ceiling-C	Ceiling value is a limit value above which exposure should not occur
STEL	Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Dichloromethane	75-09-2	DNEL	706 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
Dichloromethane	75-09-2	DNEL	176 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Dichloromethane	75-09-2	DNEL	12 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Trichloroacetic acid	76-03-9	DNEL	1.41 mg/kg	human, dermal	worker (industry)	acute - local effects
Trichloroacetic acid	76-03-9	DNEL	124.3 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Trichloroacetic acid	76-03-9	DNEL	124.3 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
Trichloroacetic acid	76-03-9	DNEL	1.41 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Trichloroacetic acid	76-03-9	DNEL	1.41 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Dichloromethane	75-09-2	PNEC	0.31 mg/l	aquatic organisms	freshwater	short-term (single instance)
Dichloromethane	75-09-2	PNEC	0.031 mg/l	aquatic organisms	marine water	short-term (single instance)
Dichloromethane	75-09-2	PNEC	26 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Dichloromethane	75-09-2	PNEC	2.57 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Dichloromethane	75-09-2	PNEC	0.26 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Dichloromethane	75-09-2	PNEC	0.33 mg/kg	terrestrial organisms	soil	short-term (single instance)
Trichloroacetic acid	76-03-9	PNEC	0.000014 mg/cm³	unknown	marine sediment	intermittent release
Trichloroacetic acid	76-03-9	PNEC	0.000017 mg/cm³	unknown	marine water	intermittent release
Trichloroacetic acid	76-03-9	PNEC	0.0027 mg/cm³	unknown	air	intermittent release
Trichloroacetic acid	76-03-9	PNEC	0.00014 mg/cm³	unknown	freshwater sediment	intermittent release
Trichloroacetic acid	76-03-9	PNEC	0.00017 mg/cm³	unknown	freshwater	intermittent release
Trichloroacetic acid	76-03-9	PNEC	100 mg/cm³	unknown	sewage treatment plant (STP)	intermittent release
Trichloroacetic acid	76-03-9	PNEC	0.0046 mg/cm³	unknown	soil	intermittent release
Trichloroacetic acid	76-03-9	PNEC	2.7 µg/l	aquatic organisms	water	intermittent release

Relevant PNECs of components of the mixture						
Name of sub-stance	**CAS No**	**End-point**	**Threshold level**	**Organism**	**Environmental compartment**	**Exposure time**
Trichloroacetic acid	76-03-9	PNEC	0.17 µg/l	aquatic organ-isms	freshwater	short-term (single instance)
Trichloroacetic acid	76-03-9	PNEC	0.017 µg/l	aquatic organ-isms	marine water	short-term (single instance)
Trichloroacetic acid	76-03-9	PNEC	100 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Trichloroacetic acid	76-03-9	PNEC	0.143 µg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Trichloroacetic acid	76-03-9	PNEC	0.014 µg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Trichloroacetic acid	76-03-9	PNEC	20 µg/kg	terrestrial organ-isms	soil	short-term (single instance)

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection.

Skin protection

• hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

FKM: fluoro-elastomer

• material thickness

0,7mm

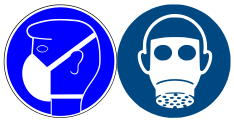
• breakthrough times of the glove material

>120 minutes (permeation: level 4)

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation.

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless - light yellow
Odour	characteristic - mild sweet
Odour threshold	250 ppm
Melting point/freezing point	-95 °C at 1,013 hPa
Boiling point or initial boiling point and boiling range	40 °C
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	13 vol% (LEL) - 22 vol% (UEL)
Flash point	not determined
Auto-ignition temperature	605 °C
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	not determined
Solubility(ies)	
Water solubility	20 $^{mg}/_{cm^3}$ at 20 °C
Partition coefficient	
Partition coefficient n-octanol/water (log value):	1.25
Vapour pressure	475 hPa at 20 °C
Density and/or relative density	
Density	1.32 $^{g}/_{cm^3}$
Relative vapour density	2.93 (air = 1)

Particle characteristics	not relevant (liquid)

Other safety parameters

Oxidising properties	none

9.2 Other information

Information with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics:	There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

May cause decomposition by long-term light influence.

10.3 Possibility of hazardous reactions

Danger of explosion: Alkali metals, Nitric acid, Aluminium, Amines, Nitrogen oxides (NOx),
Exothermic reaction with: Alkaline earth metal, Metal powder, Strong alkali

10.4 Conditions to avoid

Direct light irradiation. UV-radiation/sunlight.

10.5 Incompatible materials

Steel, aluminium, different plastics, Rubber articles

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Dichloromethane	75-09-2	oral	LD50	>2,000 $^{mg}/_{kg}$	rat
Dichloromethane	75-09-2	dermal	LD50	>2,000 $^{mg}/_{kg}$	rat
Trichloroacetic acid	76-03-9	oral	LD50	3,320 $^{mg}/_{kg}$	rat

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

vomiting, nausea

• If in eyes

Causes serious eye damage, corneal opacity, risk of blindness

• If inhaled

vertigo, dizziness, Irritation to respiratory tract, fatigue, narcosis, cough, Dyspnoea

• If on skin

causes skin irritation

• Other information

Other adverse effects: Liver and kidney damage, Circulatory collapse, Headache, Dyspnoea, Blood pressure drop

11.2 Endocrine disrupting properties

None of the ingredients are listed.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Dichloromethane	75-09-2	LC50	193 mg/l	fish	96 h
Trichloroacetic acid	76-03-9	EC50	2,000 mg/l	daphnia magna	48 h
Trichloroacetic acid	76-03-9	LC50	>1,000 mg/l	orfe (Leuciscus idus)	48 h
Trichloroacetic acid	76-03-9	LC50	2,000 mg/l	Pimephales promelas	96 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Dichloromethane	75-09-2	LC50	471 mg/l	fish	8 d
Dichloromethane	75-09-2	EC50	2,590 mg/l	microorganisms	40 min

Biodegradation

Data are not available.

12.2 Process of degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Dichloromethane	75-09-2	biotic/abiotic	5 – 26 %	28 d		
Dichloromethane	75-09-2	oxygen depletion	68 %	28 d		ECHA
Trichloroacetic acid	76-03-9	biotic/abiotic	59 %	20 d		

12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Dichloromethane	75-09-2	39	1.25 (pH value: 7, 20 °C)	
Trichloroacetic acid	76-03-9		1.33	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

Relevant provisions relating to waste(Basel Convention)

Properties of waste which render it hazardous

H11 Toxic (Delayed or chronic)

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1 UN number

UN RTDG	UN 2927
IMDG-Code	UN 2927
ICAO-TI	UN 2927

14.2 UN proper shipping name

UN RTDG	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.
IMDG-Code	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.
ICAO-TI	Toxic liquid, corrosive, organic, n.o.s.
Technical name (hazardous ingredients)	Dichloromethane, Trichloroacetic acid

14.3 Transport hazard class(es)

UN RTDG	6.1 (8)
IMDG-Code	6.1 (8)
ICAO-TI	6.1 (8)

14.4 Packing group

UN RTDG	II
IMDG-Code	II
ICAO-TI	II

14.5 Environmental hazards hazardous to the aquatic environment

Environmentally hazardous substance (aquatic environment):	Trichloroacetic acid

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Transport informationNational regulationsAdditional information(UN RTDG)

UN number	2927
Class	6.1
Subsidiary risk(s)	8
Environmental hazards	Yes Hazardous to the aquatic environment
Packing group	II
Danger label(s)	6.1+8 Fish and tree

Special provisions (SP)	274 UN RTDG
Excepted quantities (EQ)	E4 UN RTDG
Limited quantities (LQ)	100 ml UN RTDG

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.
Particulars in the shipper's declaration	UN2927, TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S., (contains: Dichloromethane, Trichloro-acetic acid), 6.1 (8), II, MARINE POLLUTANT
Marine pollutant	yes (hazardous to the aquatic environment), (Trichloroacetic acid)
Danger label(s)	6.1+8, "Fish and tree"

Special provisions (SP)	274

Excepted quantities (EQ)	E4
Limited quantities (LQ)	100 mL
EmS	F-A, S-B
Stowage category	B

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name	Toxic liquid, corrosive, organic, n.o.s.
Particulars in the shipper's declaration	UN2927, Toxic liquid, corrosive, organic, n.o.s., (contains: Dichloromethane, Trichloroacetic acid), 6.1 (8), II
Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	6.1+8

Special provisions (SP)	A4, A137
Excepted quantities (EQ)	E4
Limited quantities (LQ)	0,5 L

SECTION 15: Regulatory information

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

There is no additional information.

National regulations(Australia)

Australian Inventory of Chemical Substances(AICS)

All ingredients are listed or exempt from listing.

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
AU	AICS	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed

Country	Inventory	Status
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

Legend

AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Alignment to regulation: Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").
Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.1		Classification acc. to GHS: change in the listing (table)	yes
2.1	Remarks: For full text of Hazard- and EU Hazard-statements: see SECTION 16.		yes
2.1	The most important adverse physicochemical, human health and environmental effects: Narcotic effects.		yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Hazard statements: change in the listing (table)	yes
2.2		Precautionary statements - prevention: change in the listing (table)	yes
2.2		Precautionary statements - response: change in the listing (table)	yes
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Danger		yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relev-ant
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2	contains: Dichloromethane, Trichloroacetic acid		yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code

Abbr.	Descriptions of used abbreviations
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
UN RTDG	UN Recommendations on the Transport of Dangerous Good
vPvB	Very Persistent and very Bioaccumulative
WES	Safe Work Australia: Workplace exposure standards for airborne contaminants

Key literature references and sources for data

Safe Work Australia’s Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties. The classification is based on tested mixture.
Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.