Safety Data Sheet

according to HPR, Schedule 1

Printing date 02/05/2019

Version number 35

Reviewed on 02/05/2019

1 Identification

· Product identifier

[·] Trade name: Jowat Primer 406.30

• Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

- · Application of the substance / the mixture Adhesives
- · Uses advised against Restricted to professional users.

· Details of the supplier of the safety data sheet

Manufacturer/Supplier: Jowat SE Ernst-Hilker-Str. 10 - 14; D - 32758 Detmold Tel. +49 (0)5231 749 0; Fax +49 (0)5231 749 236 e-mail: info@jowat.de www.jowat.de Department issuing MSDS: Environmental management Tel. +49 5231 749 -218 / -211 / -270 e-mail: umweltmanagement@jowat.de · Information provided by department: Jowat Canada Ltd. P.O. Box 149 Mississauga, ON L5M 2B7 Tel.: +1 336 434-9154 Fax: +1 336 434-9184 E-Mail: canada@jowat.com • Emergency telephone number: 1 800 424 9300 (Chemtrec 24 hours service)

2 Hazard identification

Classification of the substance or mixture

GHS02 Flame

Flammable Liquids - Category 2

H225 Highly flammable liquid and vapour.

H351 Suspected of causing cancer.

GHS08 H

GHS08 Health hazard

Carcinogenicity – Category 2

GHS07

Eye Irritation - Category 2AH319 Causes serious eye irritation.Specific Target Organ Toxicity - Single Exposure -
Category 3H336 May cause drowsiness or dizziness.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



· Signal word Danger

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tetrahydrofuran acetone butanone ethyl acetate

· Hazard-determining components of labeling:

Hazard statements H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H351 Suspected of causing cancer. H336 May cause drowsiness or dizziness. **Precautionary statements** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 Use explosion-proof [electrical/ventilating/lighting] equipment. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. In case of fire: Use for extinction: CO2, powder or water spray. P370+P378 Store in a well-ventilated place. Keep container tightly closed. P403+P233 P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

3 Composition/Information on ingredients

· Chemical characterization: Mixtures

· Description: Adhesive.

· Dangerous components:		
CAS: 67-64-1 RTECS: AL 3150000	acetone	25-<50% w/w *
CAS: 78-93-3 RTECS: EL 6475000	butanone	25-<50% w/w *
CAS: 141-78-6 RTECS: AH 5425000	ethyl acetate	10-<25% w/w *
CAS: 109-99-9	tetrahydrofuran	10-<25% w/w *

* Actual concentration ranges are withheld as a trade secret.

· SVHC Not applicable.

Additional information

In case any risk phrases are listed, please refer to paragraph 16 for the exact wording.

4 First aid measures

· Description of first aid measures

· General information

Immediately remove any clothing soiled by the product.

Remove exposed persons outside into open air.

• After inhalation Supply fresh air; consult physician in case of problems.

· After skin contact Immediately wash with water and soap and rinse thoroughly.

- · After eye contact
- Flush out opened eye for several minutes under running water. If symptoms persist, consult physician.
- After swallowing If symptoms persist consult physician.
- Information for physician
- Most important symptoms and effects, both acute and delayed

No further relevant information available.

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· Indication of any immediate medical attention and special treatment needed

If swallowed or in case of vomiting, danger of entering the lungs

5 Firefighting measures

· Extinguishing media

· Suitable extinguishing agents

Foam extinguishing agent

CO2, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.

• For safety reasons unsuitable extinguishing agents Water in a full jet.

• Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO)

Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective clothing.
 Environmental precautions:

Do not allow product to reach sewer system or open water. Prevent seepage into sewer systems, pits and cellars. Prevent from spreading (e.g. by damming-in or oil barriers).

• Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, general-purpose binders, sawdust). Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections
 See Section 7 for information on safe handling
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

· Handling

Precautions for safe handling

Store in cool, dry place in tightly closed containers.

Open and handle containers with care.

Ensure that suitable extractors/ventilation systems are available on processing machines and in the workplace. In the context of the risk assessment, it is necessary to evaluate whether and to what extent protective measures are required. If necessary, a workplace measurement has to be carried out. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Use only in explosion protected area.

Highly volatile, flammable constituents are released during processing.

Fumes can combine with air to form an explosive mixture.

Flammable gas-air mixtures may be formed in empty receptacles.

• Conditions for safe storage, including any incompatibilities

Storage

· Requirements to be met by storage facilities and containers: Store in a cool location.

Information concerning mixed product storage facilities: Not required.

- Further information on storage conditions:
- Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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· Storage class 3

• Specific end use(s) No further relevant information available.

8 Exposure controls/ Personal protection

· Additional information technical layout: No further data; see item 7.

· Control parameters

· Componen	· Components with limit values that require monitoring in the workplace:		
67-64-1 aceto	one		
EL (Canada)	Short-term value: 500 ppm Long-term value: 250 ppm		
EV (Canada)	Short-term value: 750 ppm Long-term value: 500 ppm		
78-93-3 butai	none		
EL (Canada)	Short-term value: 100 ppm Long-term value: 50 ppm		
EV (Canada)	Short-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm		
141-78-6 ethy	141-78-6 ethyl acetate		
EL (Canada)	Long-term value: 150 ppm		
EV (Canada)	Long-term value: 1,440 mg/m³, 400 ppm		
109-99-9 tetrahydrofuran			
EL (Canada)	Short-term value: 100 ppm Long-term value: 50 ppm Skin		
EV (Canada)	Short-term value: 100 ppm Long-term value: 50 ppm Skin		
Regulat	· Regulatory information		

EL (Canada): O. Reg. 287/17

EV (Canada): OHS Guidelines Part 5, Table of Exposure Limits for Chemical and Biological Substances

· Additional information:

The lists that were valid at the date of compilation of this MSDS were used as basis.

Exposure controls

· Personal protective equipment

· General protection and hygiene precautions

The standard precautionary measures for handling chemicals should be observed.

Keep away from food, beverages and animal feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

· Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

Short term filter device:

Filter AX (boining point < 61 °C); Filter A (boiling point > 60 °C).

Has to be worn only if no adequate extraction system is operating when sprayed. Filter A/P2

Protection of ha

Protection of hands: Material of gloves

Recommended thickness of the material: \geq 0.7 mm LLDPE gloves

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- \cdot **Penetration time of glove material** Value for the permeation: Level ≤ 1
- In case of permanent contact in work areas where the risk of injury is low (e.g. labs) gloves made of the following material are suitable:
- LLDPE gloves
- In case of permanent contact, gloves made of the following materials are suitable:
- LLDPE gloves
- In case of skin contact of maximum of 15 minutes gloves made of the following materials are suitable:
- Butyl rubber, BR
- As protection from splashes gloves made of the following materials are suitable: Chloroprene rubber, CR
- The following materials are unsuitable for gloves: Leather gloves Strong gloves
- Eye protection:

Goggles recommended during refilling an spraying. Safety glasses

9 Physical and chemical properties

· Information on basic physical and ch	emical properties	
General Information		
· Appearance:		
· Form:	Fluid	
· Color:	According to product specification	
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
 Melting point/Melting range: 	undetermined	
Boiling point/Boiling range:	56 °C	
· Flash point:	-18 °C	
· Flammability (solid, gaseous)	Not applicable.	
· Ignition temperature:	425 °C	
· Decomposition temperature:	Not determined.	
· Self-igniting:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.	
· Explosion limits:		
· Lower:	1.5 Vol %	
· Upper:	13 Vol %	
· Vapor pressure at 20 °C:	247 hPa	
· Density at 20 °C:	0.9 g/cm ³	
· Relative density	Not determined.	
· Vapor density	Not determined.	
Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· Water:	Not miscible or difficult to mix	
· Partition coefficient (n-octanol/water): Not determined.		
· Viscosity:		
· dynamic at 20 °C:	370 mPas	

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		(Conto, or page 5)
· kinematic:	Not determined.	
· Solvent content:		
 Organic solvents: 	81.7 %	
· Solid content:	18.0 %	
• Other information	No further relevant information available.	
 VOC - Volatile Organic Compounds 		
· European Union	81.71 %	
Switzerland	81.71 %	
 U.S.A (less water and less exempts)) 712.5 g/l / 5.95 lb/gal	

10 Stability and reactivity

· Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Possibility of hazardous reactions

Forms explosive gas mixture with air

Develops readily flammable gases / fumes

Reacts with strong acids and alkali

Used empty containers may contain product gases which form explosive mixtures with air

Forms explosive gas mixture with air

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized

• Conditions to avoid No further relevant information available.

· Incompatible materials: No further relevant information available.

Hazardous decomposition products:

Hydrocarbons

Flammable gases/vapors

Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC	· LD/LC50 values that are relevant for classification:		
67-64-1 ad	67-64-1 acetone		
Oral	LD50 oral	3,592 mg/kg (rat)	
Dermal	LD50 dermal	15,688 mg/kg (rabbit)	
Inhalative	LC50 / 4 h	76 mg/l (rat)	
78-93-3 bi	utanone		
Oral	LD50 oral	2,193 mg/kg (rat) (OECD 423)	
Dermal	LD50 dermal	>5,000 mg/kg (rabbit) (OECD 402)	
Inhalative	LC50 / 4 h	40 mg/l (mouse)	
		34.5 mg/l (rat)	
141-78-6 🤅	ethyl acetate		
Oral	LD50 oral	4,934 mg/kg (rabbit)	
Dermal	LD50 dermal	18,000 mg/kg (rabbit)	
Inhalative	LC50 / 4 h	56 mg/l (rat)	
109-99-9 tetrahydrofuran			
Oral	LD50 oral	1,650 mg/kg (rat)	
Dermal	LD50 dermal	>2,000 mg/kg (rat)	
Inhalative	LC50 / 4 h	54 mg/l (rat)	
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· Primary irritant effect:

on the skin: No irritant effect.

· on the eye: Irritating effect.

· Sensitization: No sensitizing effects known.

• Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations (Directive 1999/45/EC of the European Parliament and of the Council) as issued in the latest version: Vapors have narcotic effect.

Irritant

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

· Aquatic to	oxicity:
67-64-1 ace	-
LC50 / 96 h	5,540 mg/l (rainbow trout)
LC50 / 48 h	7,500 mg/l (orfe (ide))
EC50 / 48 h	8,800 mg/l (water flea)
EC50 / 16 h	1,700 mg/l (activated sludge)
NOEC	3,400 mg/l (green algae)
78-93-3 but	anone
LC50 / 96 h	>3,000 mg/l (orfe (ide)) (OECD 203)
	2,993 mg/l (fathead minnow)
LC50 / 48 h	1,723 mg/l (water flea) (OECD 202)
LC0	4,400-4,800 mg/l (orfe (ide))
	1,150 mg/l (pseudomonas putida)
EC50 / 48 h	>100 mg/l (water flea)
EC0	2,000-2,600 mg/l (water flea)
IC0	4,300 mg/l (green algae)
141-78-6 eth	-
LC50 / 96 h	431 mg/l (zebrafish)
	230 mg/l (rainbow trout)
	230 mg/l (fathead minnow)
	350 mg/l (orfe (ide))
LC50	200 mg/l (rat)
EC50 / 48 h	3,300 mg/l (green algae)
	610 mg/l (water flea)
	724 mg/l (water flea)
EC50	17.9 mg/l (green algae)
	rahydrofuran
	2,160 mg/l (fathead minnow)
	3,485 mg/l (water flea)
	3,485 mg/l (water flea)
	>10,000 mg/l (water flea)
	460 mg/l (activated sludge)
	3,700 mg/l (scenedesmus subspicatus)
NOEC	216 mg/l (orfe (ide))
	(Contd. on page 8)

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· Persistence and degradability No further relevant information available.

- Behavior in environmental systems:
 - · **Bioaccumulative potential** No further relevant information available.
 - Mobility in soil No further relevant information available.

· Ecotoxical effects:

Behavior in sewer plants:

141-78-6 ethyl acetate

EC10 / 16 h 2,900 mg/l (pseudomonas putida)

Additional ecological information:

· CSB-value:

67-64-1 acetone

CSB 2,210 mg/g (n.a.)

General remarks:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Prevent undiluted product or product in large amounts to reach ground water, open waters or sewer systems.

- Results of PBT and vPvB assessment
 - · **PBT:** Not applicable.
 - · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewer system. Hand over to hazardous waste disposers.

· Uncleaned containers/packaging materials:

• Recommendation:

Packagings that cannot be cleansed are to be disposed of in the same manner as the product. Packaging can be reused or recycled after cleaning.

Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning.

Packaging with cured adhesive residues can be recycled.

Packaging with cured adhesive residues can be treated as household waste.

Packaging with uncured adhesive residues must be disposed of as hazardous waste.

· Recommended cleaning agent: Solvent naphtha

14 Transport information

UN1133	
Adhesives	
1133 ADHESIVES	
ADHESIVES	
3 Flammable liquids	
	Adhesives 1133 ADHESIVES ADHESIVES

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· Label 3 · TDG (Transport dangerous goods): · · TDG (Transport dangerous goods): · · Class 3 (F1) Flammable liquids · Label 3 · Packing group · · DOT, TDG, IMDG, IATA II · Environmental hazards: No · Marine pollutant: No · Special precautions for user · · EMS Number: · · EMS Number: · · Transport in bulk according to Annex II of Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · Transport/Additional information: · · TDG Code: E2 · Excepted quantities (EQ) Code: E2 · Maximum net quantity per outer packaging: 500 ml · IMDG SL · Limited quantities (LQ) SL · Excepted quantities (EQ) SL · UN "Model Regulation": UN 1133 ADHESIVES, 3, II		(Contd. of page 8)
Class C	· Label	3
Label 3 Packing group DOT, TDG, IMDG, IATA II Environmental hazards: Marine pollutant: No Special precautions for user Danger code (Kemler): No Special precautions for user Danger code (Kemler): 33 EMS Number: F-E,S-D Stowage Category B Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml IMDG Limited quantities (EQ) 5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	 TDG (Transport dangerous goods): 	
Label 3 Packing group DOT, TDG, IMDG, IATA II Environmental hazards: Marine pollutant: No Special precautions for user Danger code (Kemler): No Special precautions for user Danger code (Kemler): 33 EMS Number: F-E,S-D Stowage Category B Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml IMDG Limited quantities (EQ) 5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml		
Packing group 0 · DOT, TDG, IMDG, IATA II · Environmental hazards: No · Marine pollutant: No · Special precautions for user Warning: Flammable liquids · Danger code (Kemler): 33 · EMS Number: F-E,S-D · Stowage Category B · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · TDG · Excepted quantities (EQ) Code: E2 · Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · IMDG SL · Limited quantities (EQ) SL · Excepted quantities (EQ) SL · Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	· Class	3 (F1) Flammable liquids
· DOT, TDG, IMDG, IATA II · Environmental hazards: · Marine pollutant: No · Special precautions for user · Danger code (Kemler): 33 · EMS Number: · EMS Number: F-E,S-D · Stowage Category B · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · Transport/Additional information: · TDG · Excepted quantities (EQ) · Limited quantities (LQ) 5L · Limited quantities (EQ) 5L · Excepted quantities (EQ) 5L · Limited quantities (EQ) 5L · Excepted quantities (EQ) 5D · Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	· Label	3
Environmental hazards: No Marine pollutant: No Special precautions for user Warning: Flammable liquids Danger code (Kemler): 33 EMS Number: F-E,S-D Stowage Category B Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: Vot applicable. TDG Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml IMDG SL Limited quantities (LQ) SL Excepted quantities (EQ) SL Code: E2 Maximum net quantity per inner packaging: 500 ml		
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· Special precautions for user Warning: Flammable liquids · Danger code (Kemler): 33 · EMS Number: F-E,S-D · Stowage Category B · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · Transport/Additional information: · TDG · Excepted quantities (EQ) · Excepted quantities (EQ) Code: E2 · Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · IMDG · Limited quantities (EQ) · Excepted quantities (EQ) SL · Excepted quantities (EQ) SL · Maximum net quantity per inner packaging: 30 ml Maximum net quantity per inner packaging: 500 ml		
Danger code (Kemler): 33 EMS Number: F-E,S-D Stowage Category B Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information:	· Marine pollutant:	No
• EMS Number: F-E,S-D • Stowage Category B • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. • Transport/Additional information: • Transport/Additional information: • TDG • Excepted quantities (EQ) • Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml • IMDG 5L • Limited quantities (EQ) 5L • Excepted quantities (EQ) 5L • Aximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 30 ml Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml		
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• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. • Transport/Additional information: • TDG • Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml • IMDG 5L • Limited quantities (EQ) 5L • Excepted quantities (EQ) Code: E2 Maximum net quantity per outer packaging: 500 ml		
MARPOL73/78 and the IBC Code Not applicable. • Transport/Additional information: • • TDG • • Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml • IMDG • Limited quantities (LQ) 5L • Excepted quantities (EQ) Code: E2 Maximum net quantity per outer packaging: 500 ml		_
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Limited quantities (LQ) Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml		Maximum net quantity per inner packaging: 30 ml
• Excepted quantities (EQ) • Excepted quantities (EQ) • Maximum net quantity per inner packaging: 30 ml • Maximum net quantity per outer packaging: 500 ml	·IMDG	
Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml		
Maximum net quantity per outer packaging: 500 ml	 Excepted quantities (EQ) 	
· UN "Model Regulation": UN 1133 ADHESIVES, 3, II		
	· UN "Model Regulation":	UN 1133 ADHESIVES, 3, II

15 Regulatory information

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

· SARA Section 355 (extremely hazardous substances)

 None of the ingredients is listed.

 • SARA Section 313 (specific toxic chemical listings)

 78-93-3
 butanone

 • TSCA (Toxic Substances Control Act) (Substances not listed)

 All ingredients are listed.

 • Canadian Domestic Substances List (DSL) (Substances not listed)

 All ingredients are listed.

 • Canadian Non Domestic Substances List (NDSL) (Substances not listed)

 None of the ingredients is listed.

 • Canadian ingredient disclosure list

 • Limit 0,1 %

 None of the ingredients is listed.

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141-78-6	ethyl acetate	
109-99-9	tetrahydrofuran	
7631-86-9	silicon dioxide, chemically prepared	
· Cance	erogenity categories	
· EPA	(Environmental Protection Agency)	
acetone		1
butanone		1
tetrahydro	furan	SC
· TLV	(Threshold Limit Value established by ACGIH)	
67-64-1	acetone	A4
109-99-9	tetrahydrofuran	A3
· NIO	SH-Ca (National Institute for Occupational Safety and Health)	·
Mana of th	a in such district in links of	

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present state of information. They shall, however, not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. All standard industrial precautions apply, concerning protection of health, and safe handling. The recommendations have to be examined in the context of the application for which the product is intended, and observed as necessary.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

** Data in paragraphs with asterisk are revised in comparison to the previous version.