

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 10/31/2018 Version: 1.0

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

1.1. Product identifier

Product form : Substance Trade name : Acetone a.r. EC Index-No. : 606-001-00-8 EC-No. : 200-662-2 CAS-No. : 67-64-1

: 01-2119471330-49 REACH registration No Product code : CL00.0114 Type of product : Pure substance

 C3H6O Formula

: 2-propanon / 2-propanone / acetone / acetone NF / acetone oil / Al3-01238 / Caswell Synonyms

No.004 / chevron acetone / dimethyl formaldehyde / dimethyl ketone / dimethylketal / Dimethylketon / DMK (=dimethyl ketone) / FEMA No 3326 / ketone propane / KTI acetone / methyl acetyl / pyroacetic acid / pyroacetic ether / pyroacetic spirit / STEC 4908105

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemical

#### 1.2.2. Uses advised against

No additional information available

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

Chem-I ab ny Industriezone "De Arend" 2 Zedelgem - Belgium T +32 50 288320

info@chem-lab.be - www.chem-lab.be

### 1.4. Emergency telephone number

: +32 50 28 83 20 Emergency number

### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2 H225 Serious eye damage/eye irritation, Category 2 H319 Specific target organ toxicity — Single exposure, Category 3, Narcosis H336

Full text of H statements : see section 16

## Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

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

Hazard pictograms (CLP)

Precautionary statements (CLP)





GHS02

GHS07

Signal word (CLP) : Danger

: H225 - Highly flammable liquid and vapour. Hazard statements (CLP) H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P233 - Keep container tightly closed.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

**EUH-statements** : EUH066 - Repeated exposure may cause skin dryness or cracking.

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

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This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetone a.r.	(CAS-No.) 67-64-1 (EC-No.) 200-662-2 (EC Index-No.) 606-001-00-8 (REACH-no) 01-2119471330-49	100	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of H-statements: see section 16

#### 3.2. Mixtures

Not applicable

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

### 4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation First-aid measures after skin contact : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

: Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Remove clothing before washing. Take victim to a doctor if irritation persists

First-aid measures after eye contact

: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

irritatior

First-aid measures after ingestion

: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not give milk/oil to drink. Do not induce vomiting. Give activated charcoal. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Doctor: gastric lavage.

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

Symptoms/effects after inhalation

: EXPOSURE TO HIGH CONCENTRATIONS: Feeling of weakness. Irritation of the respiratory tract. Nausea. Vomiting. Headache. Central nervous system depression. Dizziness. Narcosis. Excited/restless. Drunkenness. Disturbed motor response. Respiratory difficulties. Disturbances of consciousness.

Symptoms/effects after skin contact

: ON CONTINUOUS EXPOSURE/CONTACT: Not irritating. Cracking of the skin.

Symptoms/effects after eye contact

: Irritation of the eye tissue.

Symptoms/effects after ingestion

: Dry/sore throat. Risk of aspiration pneumonia. Symptoms similar to those listed under inhalation. AFTER INGESTION OF HIGH QUANTITIES: Irritation of the gastric/intestinal mucosa. Change in the haemogramme/blood composition. Change in urine output. Affection of the renal tissue. Enlargement/affection of the liver.

Chronic symptoms

: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Skin rash/inflammation. Dry/sore throat. Headache. Nausea. Feeling of weakness. Loss of weight. Possible inflammation of the respiratory tract.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media

: Quick-acting ABC powder extinguisher. Quick-acting BC powder extinguisher. Quick-acting class B foam extinguisher. Quick-acting CO2 extinguisher. Class B foam (alcohol-resistant). Water spray if puddle cannot expand.

Unsuitable extinguishing media

: Water (quick-acting extinguisher, reel); risk of puddle expansion. Water; risk of puddle expansion.

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

Fire hazard

: DIRECT FIRE HAZARD: Highly flammable liquid and vapour. Gas/vapour flammable with air within explosion limits. INDIRECT FIRE HAZARD: May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. Reactions involving a fire hazard: see "Reactivity Hazard".

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Explosion hazard : DIRECT EXPLOSION HAZARD: Gas/vapour explosive with air within explosion limits.

INDIRECT EXPLOSION HAZARD: Heat may cause pressure rise in tanks/drums:

explosion risk. may be ignited by sparks. Reactions with explosion hazards: see "Reactivity

Hazard".

Hazardous decomposition products in case of fire : Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Physical explosion risk:

extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling:

persistant risk of physical explosion.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

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

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Gloves. Protective goggles. Protective clothing. Large spills/in enclosed spaces:

compressed air apparatus.

Emergency procedures : Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close

doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Keep containers

closed. Wash contaminated clothes.

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent spreading in sewers.

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

For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply.

Dam up the liquid spill. Try to reduce evaporation. Measure the concentration of the explosive gas-air mixture. Dilute/disperse combustible gas/vapour with water curtain. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over

spills.

Methods for cleaning up : Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite. Scoop

absorbed substance into closing containers. Spill must not return in its original container. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and

equipment after handling.

#### 6.4. Reference to other sections.

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Use spark-/explosionproof appliances and lighting system. Take precautions against

electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly. Work under local exhaust/ventilation. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Keep container tightly closed.

Hygiene measures : Avoid prolonged and repeated contact with skin.

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

Storage temperature : 15 - 20 °C

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. reducing agents. (strong) acids.

(strong) bases. halogens. amines.

Storage area : Store in a cool area. Keep out of direct sunlight. Store in a dry area. Store in a dark area.

Ventilation at floor level. Fireproof storeroom. Provide for an automatic sprinkler system. Provide for a tub to collect spills. Provide the tank with earthing. Meet the legal

requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. with pressure relief valve. clean. opaque. correctly

labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: steel. stainless steel. carbon steel. aluminium. iron. copper. nickel.

bronze. glass. MATERIAL TO AVOID: synthetic material.

#### 7.3. Specific end use(s)

No additional information available

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

8.1. Control parameters				
Acetone a.r. (67-64-1)				
EU	IOELV TWA (mg/m³)		1210 mg/m³	
EU	IOELV TWA (ppm)		500 ppm	
Belgium	Limit value (mg/n	n³)	1210 mg/m³	
Belgium	Limit value (ppm)	)	500 ppm	
Belgium	Short time value	(mg/m³)	2420 mg/m³	
Belgium	Short time value	(ppm)	1000 ppm	
France	VME (mg/m³)		1210 mg/m³	
France	VME (ppm)		500 ppm	
France	VLE (mg/m³)		2420 mg/m³	
France	VLE (ppm)		1000 ppm	
Netherlands	Grenswaarde TG	G 8H (mg/m³)	1210 mg/m³	
Netherlands	Grenswaarde TG	G 8H (ppm)	501 ppm	
Netherlands	Grenswaarde TG	G 15MIN (mg/m³)	2420 mg/m³	
Netherlands	Grenswaarde TG	G 15MIN (ppm)	1002 ppm	
United Kingdom	WEL TWA (mg/n	n³)	1210 mg/m³	
United Kingdom	WEL TWA (ppm)		500 ppm	
United Kingdom	WEL STEL (mg/r	n³)	3620 mg/m³	
United Kingdom	WEL STEL (ppm	)	1500 ppm	
USA - ACGIH	ACGIH TWA (pp	m)	250 ppm	
USA - ACGIH	USA - ACGIH ACGIH STEL (pp		500 ppm	
Acetone a.r. (67-64-1)				
DNEL/DMEL (Workers)				
Acute - local effects, inhalation		2420 mg/m³		
Long-term - systemic effects, d	ermal	186 mg/kg bw/day		
Long-term - systemic effects, ir	nhalation	1210 mg/m³		
DNEL/DMEL (General popula	tion)			
Long-term - systemic effects,or	al	62 mg/kg bw/day		
Long-term - systemic effects, ir	nhalation	200 mg/m³		
Long-term - systemic effects, d	Long-term - systemic effects, dermal		62 mg/kg bw/day	
PNEC (Water)				
PNEC aqua (freshwater)		10.6 mg/l		
PNEC aqua (marine water)		1.06 mg/l		
PNEC (Sediment)				
PNEC sediment (freshwater)		30.4 mg/kg dwt		
PNEC sediment (marine water)		3.04 mg/kg dwt		
PNEC (Soil)				
PNEC soil		29.5 mg/kg dwt		
PNEC (STP)				
PNEC sewage treatment plant		100 mg/l		
8.2. Exposure controls				

## 8.2. Exposure controls

## Materials for protective clothing:

GIVE GOOD RESISTANCE: butyl rubber. tetrafluoroethylene. GIVE LESS RESISTANCE: chlorosulfonated polyethylene. natural rubber. neoprene. polyurethane. PVA. styrene-butadiene rubber. GIVE POOR RESISTANCE: nitrile rubber. polyethylene. PVC. viton. nitrile rubber/PVC

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Hand protection:	
Gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Head/neck protection. Protective clothing	
Respiratory protection:	
Full face mask with filter type AX at conc. in air > exposure limit	

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

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Molecular mass : 58.08 g/mol
Colour : Colourless.

Odour : Aromatic odour. Sweet odour. Fruity odour.

Odour threshold : No data available

pH : 7 (10 g/l)

Freezing point : No data available

Boiling point : 56 °C

Flash point : -17 °C (Closed cup)

Critical temperature : 235  $^{\circ}$ C Auto-ignition temperature : 465  $^{\circ}$ C

Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : 247 hPa (20 °C)
Vapour pressure at 50 °C : 828 hPa
Critical pressure : 47010 hPa

Relative vapour density at 20 °C : 2
Relative density : 0.79
Relative density of saturated gas/air mixture : 1.2
Density : 786 kg/m³

Solubility : Soluble in water. Soluble in ethanol. Soluble in ether. Soluble in dimethyl ether. Soluble in

petroleum spirit. Soluble in chloroform. Soluble in dimethylformamide. Soluble in oils/fats.

Water: complete Ethanol: complete Ether: complete

Log Pow : -0.24 (Test data)
Viscosity, kinematic : 0.417 mm²/s
Viscosity, dynamic : 0.32 mPa.s (20 °C)
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : 2 - 12.8 vol %

60 - 310 g/m³

Lower explosive limit (LEL) : 2 vol %
Upper explosive limit (UEL) : 12.8 vol %

9.2. Other information

Minimum ignition energy : 1.15 mJ

Specific conductivity : 6000000 pS/m (25 °C)

 $\begin{array}{lll} \text{Saturation concentration} & : 589 \text{ g/m}^3 \\ \text{VOC content} & : 100 \text{ \%} \\ \end{array}$ 

Other properties : Gas/vapour heavier than air at 20°C. Clear. Highly volatile. Neutral reaction.

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

#### 10.1. Reactivity

Violent to explosive reaction with many compounds. Prolonged storage: on exposure to light: release of harmful gases/vapours.

### 10.2. Chemical stability

Unstable on exposure to light.

## 10.3. Possibility of hazardous reactions

No additional information available

## 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Reacts violently with (strong) oxidizers: peroxidation resulting in increased fire or explosion risk.

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

1	1.1. li	nformation	on toxico	logical	effects
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Acute toxicity (oral) : Not classified : Not classified Acute toxicity (dermal) Acute toxicity (inhalation) : Not classified

Acetone a.r. (67-64-1)	
LD50 oral rat	5800 mg/kg (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral)
LD50 dermal rabbit	20000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	76 mg/l (Other, 4 h, Rat, Female, Experimental value, Inhalation (vapours))
Skin corrosion/irritation	: Not classified
	pH: 7 (10 g/l)

Serious eye damage/irritation : Causes serious eye irritation.

> pH: 7 (10 g/l) : Not classified

Respiratory or skin sensitisation Germ cell mutagenicity : Not classified Carcinogenicity : Not classified : Not classified Reproductive toxicity

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified Aspiration hazard Not classified

## Acetone a.r. (67-64-1)

Viscosity, kinematic	0.417 mm²/s
Potential adverse human health effects and :	Odour tolerance may develop. Non-toxic if swallowed (LD50 oral, rat > 5000 mg/kg).
symptoms	Repeated exposure may cause skin dryness or cracking. Non-toxic in contact with skin

(LD50 skin> 5000 mg/kg). May cause drowsiness or dizziness. Non-toxic by inhalation (LC50 inh, rat > 50 mg/l/4h). Slightly irritant to respiratory organs. Causes serious eye irritation.

## SECTION 12: Ecological information

12.1. TOXICILY	
Ecology - general	: Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

: Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Ecology - air

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

: Not harmful to crustacea. Not harmful to fishes. Inhibition of activated sludge. Not harmful Ecology - water

to algae. Not harmful to plankton.

Acute aquatic toxicity : Not classified : Not classified Chronic aquatic toxicity

Acetone a.r. (67-64-1)	
LC50 fish 1	5540 mg/l (EU Method C.1, 96 h, Salmo gairdneri, Static system, Fresh water,
	Experimental value, Nominal concentration)

EC50 96h algae (1) > 7000 mg/l (Selenastrum capricornutum, Static system, Fresh water, Experimental value, Nominal concentration)

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12.2. Persistence and degradability		
Acetone a.r. (67-64-1)		
Persistence and degradability  Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Read biodegradable in water.		
Biochemical oxygen demand (BOD)	1.43 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	1.92 g O₂/g substance	
ThOD	2.2 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0.872 (20 day(s), Literature study)	
12.3. Bioaccumulative potential		
Acetone a.r. (67-64-1)		
BCF fish 1	0.69 (Pisces)	
BCF other aquatic organisms 1	3 (BCFWIN, Calculated value)	
Log Pow	-0.24 (Test data)	
Bioaccumulative potential Not bioaccumulative.		
12.4. Mobility in soil		
Acetone a.r. (67-64-1)		
Surface tension	0.0237 N/m	
Ecology - soil No (test)data on mobility of the substance available.		
12.5. Results of PBT and vPvB assessment		
Acetone a.r. (67-64-1)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
0.0.04h		

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Incinerate under surveillance with energy recovery.

Additional information

: Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

European List of Waste (LoW) code

: 15 01 10\* - packaging containing residues of or contaminated by dangerous substances 07 01 04\* - other organic solvents, washing liquids and mother liquors

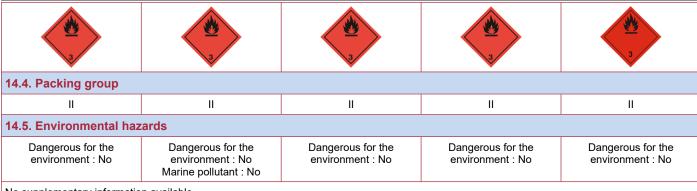
## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1090	1090	1090	1090	1090
14.2. UN proper shippin	g name			
Acetone	acetone	Acetone	Acetone	Acetone
Transport document descr	Transport document description			
UN 1090 Acetone, 3, II, (D/E)	UN 1090 acetone, 3, II	UN 1090 Acetone, 3, II	UN 1090 Acetone, 3, II	UN 1090 Acetone, 3, II
14.3. Transport hazard class(es)				
3	3	3	3	3

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No supplementary information available

#### 14.6. Special precautions for user

#### **Overland transport**

Transport regulations (ADR) : Subject to the provisions

Classification code (ADR) : F1
Hazard identification number (Kemler No.) : 33

Orange plates :

33 1090

Tunnel restriction code (ADR) : D/E EAC code : •2YE

Transport by sea

Transport regulations (IMDG) : Subject to the provisions

EmS-No. (Fire) : F-E EmS-No. (Spillage) : S-D

Air transport

Transport regulations (IATA) : Subject to the provisions

Inland waterway transport

Classification code (ADN) : F1
Carriage permitted (ADN) : T

Rail transport

Transport regulations (RID) : Subject to the provisions

Classification code (RID) : F1

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

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

## 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Acetone a.r. is not on the REACH Candidate List Acetone a.r. is not on the REACH Annex XIV List

VOC content : 100 %

Directive 2012/18/EU (SEVESO III)

#### 15.1.2. National regulations

### Germany

Reference to AwSV : Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV; ID

No. 6)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BlmSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

TA Luft : 5.2.5 Organic Substances

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

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SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de voortplanting : The substance is not listed

giftige stoffen - Borstvoeding

: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: The substance is not listed

#### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

**Danish National Regulations** : Young people below the age of 18 years are not allowed to use the product

## 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of H- and EUH-statements:		
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, Narcosis	
H225	Highly flammable liquid and vapour.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
EUH066	Repeated exposure may cause skin dryness or cracking.	

### SDS Zonder Big

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product