#### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  $\,$ 

Date of issue: 3/27/2017 Revision date: 5/7/2018 Supersedes: 9/22/2017 Version: 2.1

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

#### 1.1. Product identifier

Product form : Mixture
Product name : IPC 50
Product code : 307190

Type of product : Use in lubricants
Vaporizer : Aerosol
Product group : AEROSOL

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use

#### 1.2.2. Uses advised against

No additional information available

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

IPC SAS 10 QUAI MALBERT CS 71821 29218 BREST CEDEX 2 02.98.43.45.44 www.ipc-sa.com

#### 1.4. Emergency telephone number

No additional information available

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

#### 2.1. Classification of the substance or mixture

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

Aerosol, Category 1 H222;H229
Skin corrosion/irritation, Category 2 H315
Specific target organ toxicity — Single exposure, Category 3, Narcosis
Aspiration hazard, Category 1 H304

Hazardous to the aquatic environment — H412

Chronic Hazard, Category 3

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) :





GHS02

Signal word (CLP) : Danger

Hazardous ingredients : HYDROCARBONS C9 - C11 N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Hazard statements (CLP) : H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P211 - Do not spray on an open flame or other ignition source.

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P251 - Do not pierce or burn, even after use.

P261 - Avoid breathing spray.

P273 - Avoid release to the environment.

P280 - Wear protective gloves.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P312 - Call a doctor if you feel unwell.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 - Dispose of contents and container to compliance with local regulations.

P102 - Keep out of reach of children.

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

#### 2.3. Other hazards

No additional information available

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

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
HYDROCARBONS C9 - C11 N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS	(EC-No.) 919-857-5 (REACH-no) 01-2119463258-33	30-50	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304
huile minérale blanche	(CAS-No.) 8042-47-5 (EC-No.) 232-455-8 (REACH-no) 01-2119487078-27	<20	Asp. Tox. 1, H304
Hydrocarbures, C9, aromatiques	(EC-No.) 918-668-5 (REACH-no) 01-2119455851-35	5-15	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrocarbures aromatiques en C8 distillat d'huile légère, haut point d'ébullition	(CAS-No.) 90989-38-1 (EC-No.) 292-694-9 (EC Index-No.) 648-010-00-X (REACH-no) 01-2119486136-34	<10	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. Not classified Carc. Not classified STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
pentyl acetate substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (FR)	(CAS-No.) 628-63-7 (EC-No.) 211-047-3 (EC Index-No.) 607-130-00-2	3.38821 - 3.493	Flam. Liq. 3, H226
GAZ CO2 substance with national workplace exposure limit(s) (FR)	(CAS-No.) 124-38-9 (EC-No.) 204-696-9	1 - 5	Press. Gas (Comp.), H280
Distillates (petroleum), hydrotreated light	(EC-No.) 265-149-8	2.42015 - 2.495	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304
isopentyl acetate substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (FR)	(CAS-No.) 123-92-2 (EC-No.) 204-662-3 (EC Index-No.) 607-130-00-2	0.193612 - 0.1996	Flam. Liq. 3, H226 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

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

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Cough. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact : Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Get medical advice/attention. Repeated exposure may cause skin dryness or cracking.

First-aid measures after eye contact : Direct contact with the eyes is likely to be irritating. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

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First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Shortness of breath. May cause respiratory irritation. May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after ingestion May be fatal if swallowed and enters airways.

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

Avis au médecin.

#### **SECTION 5: Firefighting measures**

#### **Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Extremely flammable aerosol.

Explosion hazard Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of

burns and injuries.

#### **Advice for firefighters**

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment. DO NOT fight fire when

fire reaches explosives. Evacuate area.

: Do not enter fire area without proper protective equipment, including respiratory protection. Protection during firefighting

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

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

: No open flames. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove General measures

ignition sources. Use special care to avoid static electric charges.

#### 6.1.1. For non-emergency personnel

**Emergency procedures** : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing spray.

**Emergency procedures** 

#### 6.2. **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

: Store away from other materials Methods for cleaning up

#### Reference to other sections

See Heading 8. Exposure controls and personal protection.

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

#### Precautions for safe handling

Additional hazards when processed : Hazardous waste due to potential risk of explosion. Do not pierce or burn, even after use.

Precautions for safe handling Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapour. Do not spray on an open flame or other ignition source. Avoid breathing spray. Use

only outdoors or in a well-ventilated area.

: Wash hands, forearms and face thoroughly after handling. Hygiene measures

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources. Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place. Keep container

tightly closed.

: Strong bases. Strong acids. Incompatible products

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

#### Specific end use(s)

No additional information available

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

#### **Control parameters** 8.1.

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pentyl acetate (628-63-7)			
EU	Local name	Pentylacetate	
EU	IOELV TWA (mg/m³)	270 mg/m³	
EU	IOELV TWA (ppm)	50 ppm	
EU	IOELV STEL (mg/m³)	540 mg/m³	
EU	IOELV STEL (ppm)	100 ppm	
France	Local name	Acétate de pentyle	
France	VME (mg/m³)	270 mg/m³	
France	VME (ppm)	50 ppm	
France	VLE (mg/m³)	540 mg/m³	
France	VLE (ppm)	100 ppm	
isopentyl acetate (123-92-2)			
EU	Local name	Isopentylacetate	
EU	IOELV TWA (mg/m³)	270 mg/m³	
EU	IOELV TWA (ppm)	50 ppm	
EU	IOELV STEL (mg/m³)	540 mg/m³	
EU	IOELV STEL (ppm)	100 ppm	
France	Local name	Acétate d'isopentyle	
France	VME (mg/m³)	270 mg/m³	
France	VME (ppm)	50 ppm	
France	VLE (mg/m³)	540 mg/m³	
France	VLE (ppm)	100 ppm	
GAZ CO2 (124-38-9)			
France	Local name	Carbone (dioxyde de)	
France	VME (mg/m³)	9000 mg/m³	
France	VME (ppm)	5000 ppm	

#### 8.2. Exposure controls

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear protective gloves.

#### Eye protection:

Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. [In case of inadequate ventilation] wear respiratory protection.

#### Other information:

Do not eat, drink or smoke during use.

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

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

Physical state : Liquid Colour : dark brown. Odour : characteristic. Odour threshold : No data available рΗ : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available **Boiling** point : No data available Flash point : No data available

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Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Non flammable, Extremely flammable aerosol.

Vapour pressure : No data available Relative vapour density at 20 °C : No data available

Relative density : 0.83

Solubility : No data available
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

#### 9.2. Other information

No additional information available

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

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

#### 10.3. Possibility of hazardous reactions

Not established.

LD50 oral rat

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Hydrocarbures, C9, aromatiques		
	LD50 oral rat	3592 mg/kg
	LD50 dermal rabbit	> 3160 ma/ka

# LD50 dermal rabbit > 3160 mg/kg Hydrocarbures aromatiques en C8 distillat d'huile légère, haut point d'ébullition (90989-38-1)

Skin corrosion/irritation : Causes skin irritation.

Additional information : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation : Not classified

Additional information : Based on available data, the classification criteria are not met

3523 mg/kg

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

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STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : May be fatal if swallowed and enters airways.

IPC50
Vaporizer Aerosol

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

#### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Hydrocarbures, C9, aromatiques	
LC50 fish 1	9.2 mg/l Oncorhynchus mykiss (Truite arc-en-ciel); 96 h) (Toxicité pour les poissons; Petrotox computer model (v3.04)
EC50 Daphnia 1	<ol> <li>3.2 mg/l Daphnia magna (Grande daphnie); 48 h) (Toxicité pour les daphnies; OCDE Ligne directrice 202</li> </ol>
EC50 72h algae (1)	2.75 mg/l Pseudokirchneriella subcapitata (Algue verte); 72 h) (Toxicité pour les algues; Petrotox computer model (v3.04)

Hydrocarbures aromatiques en C8 distillat d'huile légère, haut point d'ébullition (90989-38-1)		
LC50 fish 1	2.6 mg/l	
EC50 Daphnia 1	1 mg/l	
EC50 72h algae (1)	2.2 mg/l 72h	

#### 12.2. Persistence and degradability

IPC50		
Persistence and degradability	May cause long-term adverse effects in the environment.	
HYDROCARBONS C9 - C11 N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS		
Persistence and degradability Not established.		
huile minérale blanche (8042-47-5)		
Persistence and degradability Not established.		
CA7 CO2 (424-29 0)		

#### GAZ CO2 (124-38-9)

Persistence and degradability Not established.

#### 12.3. Bioaccumulative potential

ı	PΩ	:5	n

Bioaccumulative potential Not established.

# HYDROCARBONS C9 - C11 N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS Log Pow 6.7 Bioaccumulative potential Not established.

#### huile minérale blanche (8042-47-5)

Bioaccumulative potential Not established.

#### GAZ CO2 (124-38-9)

Bioaccumulative potential Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Additional information : Avoid release to the environment.

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#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Container under

pressure. Do not drill or burn even after use. Dispose of contents/container to compliance with

local regulations.

Additional information : Flammable vapours may accumulate in the container.

Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

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

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

#### 14.1. UN number

UN-No. (ADR) : 1950 UN-No. (IMDG) : 1950 UN-No. (IATA) : 1950 UN-No. (ADN) : 1950 UN-No. (RID) : 1950

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS
Proper Shipping Name (IMDG) : AEROSOLS

Proper Shipping Name (IATA) : Aerosols, flammable

Proper Shipping Name (ADN) : AEROSOLS
Proper Shipping Name (RID) : AEROSOLS

Transport document description (ADR)

: UN 1950 AEROSOLS, 2.1, (D)

Transport document description (IMDG)

: UN 1950 AEROSOLS, 2.1

Transport document description (IATA)

: UN 1950 Aerosols, flammable, 2.1

Transport document description (ADN)

: UN 1950 AEROSOLS, 2.1

Transport document description (RID)

: UN 1950 AEROSOLS, 2.1

#### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 2.1
Danger labels (ADR) : 2.1



#### IMDG

Transport hazard class(es) (IMDG) : 2.1
Danger labels (IMDG) : 2.1



#### IATA

Transport hazard class(es) (IATA) : 2.1 Hazard labels (IATA) : 2.1



#### ADN

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Transport hazard class(es) (ADN) : 2.1
Danger labels (ADN) : 2.1

:



#### RID

Transport hazard class(es) (RID) : 2.1
Danger labels (RID) : 2.1

:



: CV9, CV12

: S2

#### 14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

#### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : 5F

Special provisions (ADR) : 190, 327, 344, 625

Limited quantities (ADR) : 11 Excepted quantities (ADR) : E0

Packing instructions (ADR) : P207, LP02 Special packing provisions (ADR) : PP87, RR6, L2

Mixed packing provisions (ADR): MP9Transport category (ADR): 2Special provisions for carriage - Packages: V14

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

Special provisions for carriage - Operation

(ADR)

Tunnel restriction code (ADR) : D

- Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 959

Limited quantities (IMDG) : SP277
Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P207, LP02
Special packing provisions (IMDG) : PP87, L2
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U
Stowage category (IMDG) : None
Stowage and handling (IMDG) : SW1, SW22
Segregation (IMDG) : SG69

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#### - Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg

Special provisions (IATA) : A145, A167, A802

ERG code (IATA) : 10L

#### - Inland waterway transport

Classification code (ADN) : 5F

Special provisions (ADN) : 190, 327, 344, 625

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E0

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01, VE04

Number of blue cones/lights (ADN) : 1

#### - Rail transport

Classification code (RID) : 5F

Special provisions (RID) : 190, 327, 344, 625

Limited quantities (RID) : 1L Excepted quantities (RID) : E0

Packing instructions (RID) : P207, LP02 Special packing provisions (RID) : PP87, RR6, L2

Mixed packing provisions (RID) : MP9
Transport category (RID) : 2
Special provisions for carriage – Packages : W14

(RID)

Special provisions for carriage - Loading, : CW9, CW12

unloading and handling (RID)

Colis express (express parcels) (RID) : CE2
Hazard identification number (RID) : 23

#### 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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

#### Indication of changes:

Section	Changed item	Change	Comments
	Revision date	Modified	
1.1	Product code	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008	Modified	

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	[CLP]		
2.2	Hazard pictograms (CLP)	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

#### Full text of H- and EUH-statements:

Full text of H- and com-statements.			
Acute Tox. 4 (Dermal) Acute toxicity (dermal), Category 4			
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4		
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2		
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3		
Asp. Tox. 1	Aspiration hazard, Category 1		
Carc. Not classified	Carcinogenicity Not classified		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
Muta. Not classified	Germ cell mutagenicity Not classified		
Press. Gas (Comp.)	Gases under pressure : Compressed gas		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
H222	Extremely flammable aerosol.		
H226	Flammable liquid and vapour.		
H229	Pressurised container: May burst if heated.		
H280	Contains gas under pressure; may explode if heated.		
H304	May be fatal if swallowed and enters airways.		
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
EUH066	Repeated exposure may cause skin dryness or cracking.		

#### SDS EU (REACH Annex II)

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

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