

PERFEKTIN 400

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

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Version: 1.1

SDS No: 12236-0013

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

1.1. Product identifier

Product form : Mixture
Product name : PERFEKTIN 400

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 : Organic solvent

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Imbach Chemie AG

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info@imbachchemie.ch - www.imbachchemie.ch

1.4. Emergency telephone number

Emergency number : England & Wales: 111, Scotland: 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226
Specific target organ toxicity — Single exposure, Category 3, Narcosis H336
Specific target organ toxicity — Repeated exposure, Category 1 H372
Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazardous ingredients :

Naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha

Hazard statements (CLP) :

H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H336 - May cause drowsiness or dizziness.
H372 - Causes damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

PERFEKTIN 400

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
SDS No: 12236-0013

Precautionary statements (CLP)	: P243 - Take action to prevent static discharges. P260 - Do not breathe dusts or mists. P262 - Do not get in eyes, on skin, or on clothing. P273 - Avoid release to the environment. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P331 - Do NOT induce vomiting. P405 - Store locked up.
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]
Naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha (Note P)	(CAS-No.) 64742-82-1 (EC-No.) 265-185-4	50 - 100	Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
pentyl acetate Substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB) (Note C)	(CAS-No.) 628-63-7 (EC-No.) 211-047-3 (EC Index-No.) 607-130-00-2	< 2,5	Flam. Liq. 3, H226

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note P : The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262- P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Adhere to personal protective measures when giving first aid. Take affected person away from danger area. Take off immediately all contaminated clothing. Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. In case of loss of conscience place the victim in the recovery position. Call a doctor.
First-aid measures after skin contact	: Wash off immediately with soap and plenty of water. Call a physician immediately.
First-aid measures after eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist.
First-aid measures after ingestion	: Call a physician immediately. Do not induce vomiting. Drink plenty of water.

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

Symptoms/effects	: Causes damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: High concentration of vapours may induce: headache, dizziness, drowsiness, nausea and vomiting.

PERFEKTIN 400

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SDS No: 12236-0013

Symptoms/effects after skin contact	: Prolonged or repeated contact may cause skin to become dry or cracked. Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: Toxic if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Fire-extinguishing activities according to surrounding. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: high volume water jet.

5.2. Special hazards arising from the substance or mixture

Explosion hazard	: In use, may form flammable/explosive vapour-air mixture.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon oxides (CO, CO ₂).

5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.
Other information	: Cool containers at risk with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Vapours are heavier than air and may spread along floors. The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Avoid contact with skin, eyes and clothing. Evacuate unnecessary personnel. Wear personal protective equipment. No flames, no sparks. Eliminate all sources of ignition.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Dilute with plenty of water. Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters. Use water spray jet to minimise or disperse vapours.

6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Ensure adequate air ventilation. Wash away remainder with plenty of water. Clean contaminated surface thoroughly.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8. For further information refer to section 13.

PERFEKTIN 400

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SDS No: 12236-0013

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Use only outdoors or in a well-ventilated area. Keep container tightly closed. Handle and open container with care. Take precautionary measures against static discharge. Keep away from sources of ignition - No smoking. Explosion free apparatus have to be used. Use only non-sparking tools.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container tightly closed in a dry, cool and well-ventilated place. Avoid sub-soil penetration. Store locked up.
- Incompatible products : Acids and oxidizing agents.
- Heat and ignition sources : Keep away from heat and direct sunlight.
- Information on mixed storage : Keep away from food, drink and animal feeding stuffs.
- Special rules on packaging : Use containers only, specially approved for this substance/product.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Naphtha (petroleum), hydrosulphurized heavy; Low boiling point hydrogen treated naphtha (64742-82-1)

EU - Occupational Exposure Limits

Local name	White spirit Type 1
IOELV TWA (mg/m ³)	116 mg/m ³
IOELV TWA (ppm)	20 ppm
IOELV STEL (mg/m ³)	290 mg/m ³
IOELV STEL (ppm)	50 ppm
Notes	Skin. (Year of adoption 2007)
Regulatory reference	SCOEL Recommendations

pentyl acetate (628-63-7)

EU - Occupational Exposure Limits

Local name	Pentylacetate
IOELV TWA (mg/m ³)	270 mg/m ³
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m ³)	540 mg/m ³
IOELV STEL (ppm)	100 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

United Kingdom - Occupational Exposure Limits

Local name	Pentyl acetate
WEL TWA (mg/m ³)	270 mg/m ³ all isomers
WEL TWA (ppm)	50 ppm all isomers
WEL STEL (mg/m ³)	541 mg/m ³ all isomers
WEL STEL (ppm)	100 ppm all isomers
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

PERFEKTIN 400

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
SDS No: 12236-0013

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves. Select the appropriate glove material adhering to the breakthrough time, permeation rate and the degradation. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
protective gloves	Butyl rubber	6 (> 480 minutes)	0,5		EN ISO 374

Eye protection:

Protective goggles (EN 166)

Skin and body protection:

Long sleeved protective clothing. EN 368. Impermeable clothing

Respiratory protection:

Wear respiratory protection. EN 149

Device	Filter type	Condition	Standard
Breathing apparatus with filter	ABEK	Short term exposure	
Self contained breathing apparatus		Long term exposure	

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: Of aromatic carbon hydroxides.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: < -15 °C
Freezing point	: No data available
Boiling point	: 150 °C
Flash point	: 40 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 2 hPa (20°C)
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.776 g/cm ³ (20°C)
Solubility	: Water: 0.042 g/l (20°C)
Log Pow	: > 3
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive. Flammable or explosive vapour/air mixtures may be formed.
Oxidising properties	: Flammable.
Lower explosive limit (LEL)	: 0.6 vol %
Upper explosive limit (UEL)	: 6.1 vol %

PERFEKTIN 400

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
SDS No: 12236-0013

9.2. Other information

Additional information : Ignition temperature > 200°C

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable under normal conditions. To avoid thermal decomposition, do not overheat.

10.3. Possibility of hazardous reactions

Reacts with : oxidizing materials.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Vapour/air-mixtures are explosive at intense warming. Heating can release vapours which can be ignited.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

PERFEKTIN 400

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

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

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

No additional information available

PERFEKTIN 400

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SDS No: 12236-0013

12.3. Bioaccumulative potential

PERFEKTIN 400

Log Pow > 3

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

Other adverse effects : Endangering to drinking water.
Additional information : Do not flush into surface water or sewer system

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Disposal in accordance with local regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions. Should not be disposed of with household waste.
Additional information : The vapour/air mixture is explosive, even in empty, uncleaned receptacles.
European List of Waste (LoW) code : 16 05 08* - discarded organic chemicals consisting of or containing dangerous substances
15 01 02 - plastic packaging

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping name				
FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha)	FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha)	Flammable liquid, n.o.s. (Naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha)	FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha)	FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha)
Transport document description				
UN 1993 FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha), 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha), 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1993 Flammable liquid, n.o.s. (Naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha), 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha), 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha), 3, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
3	3	3	3	3

PERFEKTIN 400

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SDS No: 12236-0013

14.4. Packing group

III	III	III	III	III
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14.5. Environmental hazards

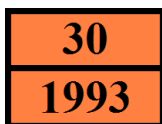
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
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No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 274, 601
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Mixed packing provisions (ADR) : MP19
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 30
Orange plates :



Tunnel restriction code (ADR) : D/E
EAC code : •3YE

Transport by sea

Special provisions (IMDG) : 223, 274, 955
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y344
PCA limited quantity max net quantity (IATA) : 10L
PCA packing instructions (IATA) : 355
PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 366
CAO max net quantity (IATA) : 220L
Special provisions (IATA) : A3
ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F1
Special provisions (ADN) : 274, 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : F1
Special provisions (RID) : 274, 601
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Transport category (RID) : 3
Hazard identification number (RID) : 30

PERFEKTIN 400

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SDS No: 12236-0013

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable on	Entry title or description
40.	PERFEKTIN 400 ; Naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha ; pentyl acetate	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Directive 2012/18/EU (SEVESO III)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P5c FLAMMABLE LIQUIDS Flammable liquids, Categories 2 or 3 not covered by P5a and P5b	5000	50000
E2 Hazardous to the Aquatic Environment in Category Chronic 2	200	500

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

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods

PERFEKTIN 400

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SDS No: 12236-0013

LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 3	H226	On basis of test data
STOT SE 3	H336	Calculation method
STOT RE 1	H372	Calculation method
Asp. Tox. 1	H304	Expert judgment
Aquatic Chronic 2	H411	Calculation method

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.