

Safety data sheet in accordance with regulation (EC) No 1907/2006

Ink-TPL Pad Printing Ink

Date revised: 23.01.2015

Version: 4 / GB Replaces Version: 3 / GB

Print date: 04.02.15

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

1.1. Product identifier

Ink-TPL

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

Use of the substance/preparation

Pad printing ink

Identified Uses

SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
PROC1	Use in closed process, no likelihood of exposure
PROC2	Use in closed, continuous process with occasional controlled exposure
PROC3	Use in closed batch process (synthesis or formulation)
PROC4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC10	Roller application or brushing
PROC11	Non industrial spraying
PROC13	Treatment of articles by dipping and pouring
PROC19	Hand-mixing with intimate contact and only PPE available
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8d	Wide dispersive outdoor use of processing aids in open systems

Uses advised against

SU21 Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

Address

ITW Trans Tech
475 N. Gary Avenue
Carol Stream, IL 60188

Ph: 630-752-4000
www.itwtranstech.com

1.4. Emergency telephone number

352-323-3500 InfoTrac

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 3 H226

Eye Dam. 1 H318

Classification in accordance with EC directives 1999/45/EC and 67/548/EEC

Classification Xi, R36

R10

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour.

H318 Causes serious eye damage.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

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

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Gamma-butyrolactone;Butan-1-ol

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures

Chemical characterization

Pad printing ink based on acrylic resins and on solvents

Hazardous ingredients ***

Gamma-butyrolactone

CAS No. 96-48-0

EINECS no. 202-509-5

Registration no. 01-2119471839-21

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Concentration >= 3 < 10 %
Classification Xn, R22
Xi, R41
R67

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302
Eye Dam. 1 H318
STOT SE 3 H336

Alkanes, C9-C12 -iso-paraffines

CAS No. 90622-57-4
EINECS no. 918-167-1
Registration no. 01-2119472146
Concentration >= 1 < 10 %
Classification Xn, R65
R66
R53

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2 H226
Asp. Tox. 1 H304
Aquatic Chronic 4 H413
EUH066

Butan-1-ol

CAS No. 71-36-3
EINECS no. 200-751-6
Registration no. 01-2119484630-38
Concentration >= 1 < 3 %
Classification Xn, R22
Xi, R37/38-R41
R10
R67

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302
STOT SE 3 H335
Skin Irrit. 2 H315
Eye Dam. 1 H318
STOT SE 3 H336
Flam. Liq. 3 H226

Butyl glycolate

CAS No. 7397-62-8
EINECS no. 230-991-7
Registration no. 01-2119514685-36
Concentration >= 0,1 < 1 %
Classification Xi, R41
Repr.Cat.3, R63

Classification (Regulation (EC) No. 1272/2008)

Eye Dam. 1 H318
Repr. 2 H361d

2-Methoxypropyl acetate

CAS No. 70657-70-4
EINECS no. 274-724-2
Concentration \geq 0,1 < 0,3 %
Classification Repr.Cat.2, R61
Xi, R37
R10

Classification (Regulation (EC) No. 1272/2008)
STOT SE 3 H335
Flam. Liq. 3 H226
Repr. 1B H360D

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

After inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

After skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

Until now no symptoms known so far.

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

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO₂, powders, water spray/mist, Not be used for safety reasons: water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); dense black smoke; Hydrogen chloride (HCl)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter

drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Avoid skin and eye contact. Avoid the inhalation of particulates and spray mist arising from the application of this mixture. Smoking, eating and drinking shall be prohibited in application area. For personal protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses.

Advice on protection against fire and explosion

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

Classification of fires / temperature class / Ignition group / Dust explosion class

Classification of fires	B (Combustible liquid substances)
Temperature class	T2

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Electrical installations/working materials must comply with the local applied technological safety standards. Storage rooms in which filling operations take place must have a conducting floor. Store in accordance with national regulation

Hints on storage assembly

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

Further information on storage conditions

Observe label precautions. Store between 15 and 30 °C in a dry, well ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition.

No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3. Specific end use(s)

Pad printing ink

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

2-Methoxy-1-methylethyl acetate

List	EH40			
Type	WEL			
Value	274	mg/m ³	50	ppm(V)
Short term exposure limit	548	mg/m ³	100	ppm(V)
Skin resorption / sensibilisation: Sk; Status: 2011				

Butan-1-ol

List	EH40			
Type	WEL			
Short term exposure limit	154	mg/m ³	50	ppm(V)
Skin resorption / sensibilisation: Sk; Status: 2011				

Derived No/Minimal Effect Levels (DNEL/DMEL)

Gamma-butyrolactone

Type of value	Derived No Effect Level (DNEL)			
Reference group	Worker			
Duration of exposure	Long term			
Route of exposure	inhalative			
Mode of action	Systemic effects			
Concentration	130			mg/m ³

Type of value	Derived No Effect Level (DNEL)			
Reference group	Worker			
Duration of exposure	Long term			
Route of exposure	dermal			
Mode of action	Systemic effects			
Concentration	19			mg/kg

Type of value	Derived No Effect Level (DNEL)			
Reference group	Consumer			
Duration of exposure	Acute			
Route of exposure	inhalative			
Mode of action	Systemic effects			
Concentration	28			mg/m ³

Type of value	Derived No Effect Level (DNEL)			
Reference group	Consumer			
Duration of exposure	Long term			
Route of exposure	dermal			
Mode of action	Systemic effects			
Concentration	8			mg/cm ²

2-Methoxy-1-methylethyl acetate

Reference substance	2-Methoxy-1-methylethyl acetate			
Type of value	Derived No Effect Level (DNEL)			
Reference group	Worker			

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Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 153,5 mg/kg
 Source Literature value

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 275 mg/m³
 Source Literature value

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 54,8 mg/kg
 Source Literature value

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 33 mg/m³
 Source Literature value

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure oral
 Mode of action Systemic effects
 Concentration 1,67 mg/kg
 Source Literature value

Butan-1-ol

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 310 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 310 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Local effects

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Concentration	55	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	55	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Local effects	
Concentration	3,125	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	3,125	mg/kg

Predicted No Effect Concentration (PNEC)

Gamma-butyrolactone

Type of value	PNEC	
Type	Freshwater	
Concentration	0,056	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,0056	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,56	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,24	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,02	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,014683	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	452	mg/l

2-Methoxy-1-methylethyl acetate

Reference substance	2-Methoxy-1-methylethyl acetate	
Type of value	PNEC	

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Type	Freshwater	
Concentration	0,635	mg/l
Source	Literature value	
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	3,29	mg/kg
Source	Literature value	
Type of value	PNEC	
Type	Soil	
Concentration	0,29	mg/kg
Source	Literature value	
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l
Source	Literature value	
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,329	mg/kg
Source	Literature value	
Type of value	PNEC	
Type	Saltwater	
Concentration	0,0635	mg/l

Butan-1-ol

Type of value	PNEC	
Type	Freshwater	
Concentration	0,082	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,0082	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	2,25	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	2476	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,178	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,0178	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,015	mg/kg

8.2. Exposure controls

Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness > 0,5 mm

Breakthrough time < 30 min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection

Use safety eyewear designed to protect against splash of liquids.

Body protection

Cotton or cotton/synthetic overalls or coveralls are normally suitable.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Pasty
Colour	coloured
Odour	solvent-like
Odour threshold	
Remarks	No data available
pH value	
Remarks	Not applicable
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Initial boiling point and boiling range	
Value	appr. 148 °C
Pressure	1.013 hPa
Source	Literature value
Flash point	
Value	51 °C

Method	ASTM D 6450 (CCCFP)
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Evaporation rate (ether = 1) :

Remarks	not determined
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Flammability (solid, gas)

Not applicable

Upper/lower flammability or explosive limits

Lower explosion limit	appr. 1,5	%(V)
Upper explosion limit	appr. 15,6	%(V)
Source	Literature value	

Vapour pressure

Value	appr. 3	hPa
Temperature	20	°C
Method	calculated	

Vapour density

Remarks	not determined
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Density

Value	1,08	g/cm ³
Temperature	20	°C
Method	DIN EN ISO 2811	

Solubility in water

Remarks	partially miscible
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Partition coefficient: n-octanol/water

Remarks	Not applicable
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Ignition temperature

Value	appr. 315	°C
Source	Literature value	

Efflux time

Value	> 150	s
Method	DIN 53211 4 mm	

Explosive properties

evaluation	no
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Oxidising properties

evaluation	None known
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9.2. Other information**Other information**

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4. Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products.

10.5. Incompatible materials

No hazardous reactions when stored and handled according to prescribed instructions.

10.6. Hazardous decomposition products

See chapter 5.2 (Firefighting measures - Special hazards arising from the substance or mixture).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE	>	2.000	mg/kg
Method		calculated value (Regulation (EC) No. 1272/2008)	

Experience in practice

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation. Causes serious eye damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Other information

There are no data available on the mixture itself.

The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly.

SECTION 12: Ecological information

12.1. Toxicity

General information

There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

12.2. Persistence and degradability

General information

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

General information

There are no data available on the mixture itself.

Partition coefficient: n-octanol/water

Remarks	Not applicable
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12.4. Mobility in soil

General information

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

General information

There are no data available on the mixture itself.

12.6. Other adverse effects

General information

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Do not allow to enter drains or water courses.

Wastes and emptied containers should be classified in accordance with relevant national regulation.

The European Waste Catalogue classification of this product, when disposed of as waste is

EWC waste code 08 03 12* waste ink containing dangerous substances

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information contact your local waste authority.

Disposal recommendations for packaging

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Not emptied containers are hazardous waste (waste code number 150110).

SECTION 14: Transport information

Land transport ADR/RID

14.1. UN number

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

Class 3

Label 3

14.4. Packing group

Packing group III

Special provision 640E

Remarks The product is viscous; non-dangerous good in Containers with a capacity <= 450 ltrs.

Limited Quantity 5 l

Transport category 3

14.5. Environmental hazards

-

Tunnel restriction code D/E

Marine transport IMDG/GGVSee

14.1. UN number

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

Class 3

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14.4. Packing group

Packing group III
Remarks Transport according to 2.3.2.5 of the IMDG Code

14.5. Environmental hazards

no

Air transport ICAO/IATA

14.1. UN number

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

Class 3

14.4. Packing group

Packing group III

14.5. Environmental hazards

-

Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:
Always transport in closed containers that are upright and secure.
Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

no

SECTION 15: Regulatory information

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

Major-accident categories acc. 96/82/EC

Category	6	Flammable	5.000.000	kg	50.000.000	kg
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VOC

VOC (EU)	66,85	%	722	g/l
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Other information

The product does not contain substances of very high concern (SVHC).

Other information

All components are contained in the TSCA inventory or exempted.
All components are contained in the AICS inventory.
All components are contained in the PICCS inventory.
All components are contained in the DSL inventory.
All components are contained in the ENCS inventory.
All components are contained in the ECL inventory.

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

R-phrases listed in Chapter 3

10	Flammable.
22	Harmful if swallowed.
37	Irritating to respiratory system.

37/38	Irritating to respiratory system and skin.
41	Risk of serious damage to eyes.
53	May cause long-term adverse effects in the aquatic environment.
61	May cause harm to the unborn child.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

Hazard statements listed in Chapter 3

EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.
H413	May cause long lasting harmful effects to aquatic life.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.
The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.
The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.