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## **PAINTBRUSHES CLEANER**

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1. Identification of the substance/mixture and of the company/undertaking.

#### 1.1 Product identifier

Product form: Substance

Trade name: Paintbrushes cleaner

Hazardous ingredients: 2.2.4-trimethylpentane [540-84-1]

Reach substance name: 2.2.4-trimethylpentane

HS code: 27101225

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

Relevant identified uses: Formulation and (re)packing of substances and mixtures.

(Industrial)

Use of the substance/mixture: Cosmetics: Make-up remover made to clean the paintbrushes and

keep them longer.

Sector of use: SU08, SU09

Process category: PROC01 – PROC02 – PROC03 – PROC04 – PROC05 –

PROC08a - PROC08b - PROC09 - PROC14 - PROC15

Environmental release category: ERC02

# 1.3 Details of the supplier of the safety data sheet

Company: Maqpro

2 ter rue Alasseur

75015 Paris

Phone: 01 42 25 10 11

Mail: maqpro.usine@orange.fr

## 1.4 Emergency telephone number

France: ORFILA: +33 1 45 42 59 59

## 2. Hazards identification.

#### 2.1 Classification of the substance or mixture

Flam. Liq. 2 H225 Skin Irrit. 2 H315 STOT SE 3 H336 Asp. Tox. 1 H304 Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Classification according to Regulation (EC) No 1272/2008. (cf. 16. Other information)

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#### 2.2 Label elements

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

Hazard pictograms:



Signal word: Danger

Hazard-determining

components of labelling: 2.2.4-trimethylpentane [540-84-1]

Hazard statements: H225 - Highly flammable liquid and vapour

H315 - Causes skin irritation

H304 - May be fatal if swallowed and enters airways.

H336 - May cause drowsiness or dizziness

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements: P210 - Keep away from heat/sparks/open flames/hot surfaces - No

smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof

electrical/ventilating/light/.../equipment P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P264 - Wash ... thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye

protection/face protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER

or doctor/physician

P302 + P352 - IF ON SKIN: Wash with soap and water

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

water/shower

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at

rest in a position

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P321 - Specific treatment (see ... on this label)

P331 - Do NOT induce vomiting

P332 + P313 - IF skin irritation occurs: Get medical advice/attention

P370 + P378 - In case of fire: Use ... for extinction

P391 - Collect spillagee

P403 + P235 - Store in a well ventilated place. Keep cool

P405 - Store locked up

P501 - Dispose of contents/container to ...



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#### 2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No.1907/2006, Annex XIII: No. No additional information available.

# 3. Composition/information on ingredients

## 3.1 Substances

Classification according to Regulation (EC) No 1272/2008. (cf. 16. Other information)

International Chemical Name	CAS	ENEICS	%	Hazard Class and Category Code(s)	Hazard Statement Code(s)
2.2.4- trimethylpentane	540-84-1	208-759-1	100	Flam. Liq. 2  *  Skin Irrit. 2  *  STOT SE 3  *  Asp. Tox. 1  *  Aquatic Acute 1  *  Aquatic Chronic  1	H225 H315 H336 H304 H400 (M=1) H410 (M=1)

#### 3.2 Mixtures

Not applicable. See section 3.1.

## 4. First aid measures

## 4.1 Description of first aid measures

First aid measures after inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately.



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Maintain an open airway. Loosen tight clothing such as

a collar, tie, belt or waistband

First aid measures after skin contact: Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before

reuse.

First aid measures after eye contact: Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for

at least 10 minutes. Get medical attention.

First aid measures after ingestion: Get medical attention immediately. Call a poison center

or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material

has been swallowed and the exposed person is

conscious, give small quantities of water to drink. Stop if

the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place

in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

See section 11 for more detailed information on health effects and symptoms.

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

See section 11 for more detailed information on health effects and symptoms.

## 5. Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing media: Do not use water jet.

## 5.2 Special hazards arising from the substance or mixture



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Hazards from the substance: Highly flammable liquid and vapour. In a fire or

if heated, a pressure increase will occur and the

container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this

material must be contained and prevented from being discharged to any waterway, sewer or

drain.

Hazardous thermal decomposition products: Decomposition products

may include the following materials: carbon dioxide &

carbon monoxide

5.3 Advice for firefighters

Special protective actions for fire-fighters: Promptly isolate the scene by removing all

persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk.

Use water spray to keep fire-exposed

containers cool.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of

protection for chemical incidents.

## 6. Accidental release measures

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

For non-emergency personnel: No action shall be taken involving any personal risk or without

suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard



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area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take

note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency

personnel".

## 6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. Collect spillage.

## 6.3 Methods and material for containment and cleaning up

Small spill: Stop leak if without risk. Use spark-proof tools and explosion-rpoof equipment.

Dispose of via licensed waste disposal contractor.

Large spill: Stop leak if without risk. Prevent entry into sewers, water courses, basements or

confined areas. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the

same hazard as the spilt product.

#### 6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## 7. Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment

(see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Use only



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with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Seveso Directive – reporting tresholds (in tonnes)

#### Danger criteria:

Category	Notification and MAPP treshold	Safety report threshold
P5c: Flammable liquids 2 and 3 not falling	5000	50000
under P5a or P5b		
E1: Hazardous to the aquatic environment –	100	200
Acute 1 or Chronic 1		
C7b: Highly flammable (R11)	5000	50000
C9i : Very toxic for the environment	100	200



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## 7.3 Specific end use(s)

Recommendations: Not available.

Industrial sector specific solutions: Not available.

Remarks: Store and use away from heat, sparks, open flame or any other ignition source.

## 8. Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

Exposure limit values: Not available.

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, workplace personal, atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### 8.2 Exposure controls

Appropriate engineering controls:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any



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lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Recommended: Tightly fitting safety goggles.

Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations Recommended: (< 1 hour) Nitrile rubber – NBR

Other skin protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear protective clothing.

Respiratory protection:

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator



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selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Recommended: organic vapour filter (Type A)

Environmental exposure controls: Emissions from ventilation or work process equipment

should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties.

Appearance: Liquid.

Odour: Petrol [slight]. Colour: Colourless.

pH-value: No data available.

Melting point: -103°C (-153.4°F)

Boiling point: 98 to 102°C (208.4 to 215.6°F)

Flash point: Closed cup: -14°C (6.8°F) [DIN51755]

Lower and upper explosive

(flammable) limits: Lower: 0.7%

Upper: 5.5% 53 hPa (20°C)

Vapour pressure: 53 hPa (20°C)
Density: 0.69 kg/L (20°C)

Solubility in water: Insoluble in the following materials: cold water

Ignition temperature: 410°C

Partition coefficient:

n-octanol/water: 4.5 (calculated)
Auto-ignition temperature: 420°C (788°F)
Viscosity: Dynamic: 0.5 mPa.s

Kinematic: <7 mm<sup>2</sup>/s

## 9.2 Other information

No additional information available.

## 10. Stability and reactivity

#### 10.1 Reactivity

Not specific test data related to reactivity available for this product or its ingredients.



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## 10.2 Chemical stability

The product is stable.

## 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

## 10.4 Conditions to avoid

Keep away from the following materials: contact with strong oxidizing agents may cause hazardous reactions.

## 10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidizing materials.

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

## 11.1 Information on toxicological effects

Acute toxicity:

Product/ingredient name	Result	Species	Dose	Exposure	Test
2,2,4-trimethylpentane	LD50 Oral	Rat	>5000 mg/kg	-	-
2,2,4-trimethylpentane	LD50 Dermal	Rabbit	>2000 mg/kg	-	-
2,2,4-trimethylpentane	LC50 Inhalation Vapour	Rat	>33,5 mg/l	4 hours	-

Irritation/Corrosion

Conclusion/Summary

Skin: Irritant Eyes: Irritant

## Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of	Target organs
		exposure	
2,2,4-trimethylpentane	Category 3	Not applicable.	Narcotic effects

#### Aspiration hazard

Product/ingredient name	Result
2,2,4-	ASPIRATION HAZARD - Category 1
trimethylpentane	ASPIRATION HAZARD - Category 1
2,2,4-	
trimethylpentane	



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#### Potential acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation: Can cause central nervous system (CNS) depression. May cayse drowsiness

or dizziness.

Skin contact: Causes skin irritation.

Ingestion: Can cause central nervous system (CNS) depression. May be fatal if

swallowed and enters airways.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Not available.

Remarks: Breathing of the fumes may lead to narcotic symptoms.

Other information: Not available.

# 12. Ecological information

## 12.1 Toxicity

Product/ingredient name	Test	Result	Species	Exposure
• •	OECD 203 Fish, Acute Toxicity	Aiguë CL50 0,1'1 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Test -	Aiguè CE50 0,4 mg/l	Daphnia -Daphnia magna	48 hours
	-	Aiguë Cl50 2,943 mg/l	capricornutum	72 hours
	-	Aiguë NOEC 0,17 mg/l	Daphnia - Daphnia magna	21 days

Conclusion/Summary: Not available.

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2,2,4-trimethylpentane	OECD 301F Ready Biodegradability - Manometric Respirometry Test	>60 % - Inherent - 14 days	-	-

 $Conclusion/Summary: Not\ available.$ 

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2,2,4-trimethylpentane 2,2,4-	-	-	Not readily
trimethylpentane	-	-	Inherent



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## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2,2,4-trimethylpentane	4,5	-	high

## 12.4 Mobility in soil

Soil/water partition coefficient (KOC): 4.35

Mobility: Not available.

#### 12.5 Results of PBT et vPvB assessment

PBT: No.

vPvB: Not available.

#### 12.6 Other adverse effects

Over adverse effects: No known significant effects or critical hazards.

AOX: Not available.

## 13. Disposal consideration

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 13.1 Waste treatment methods

#### **Product**

Methods of disposal: The generation of waste should be avoided or

> minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully

> compliant with the requirements of all authorities with

jurisdiction.



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Hazardous waste: The classification of the product may meet the criteria

for a hazardous waste.

**Packaging** 

Methods of disposal: The generation of waste should be avoided or

minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be

considered when recycling is not feasible.

Special precautions: This material and its container must be disposed of in a

safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact

with soil, waterways, drains and sewers.

# 14. Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1262	UN1262	UN1262	UN1262
14.2 UN proper shipping name	OCTANES	OCTANES	OCTANES	OCTANES
14.3 Transport hazard class(es)/ Marks	3	3	3	3
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes	Yes
14.6 Special precautions for user/Additional information	Hazard identification number 33	Hazard identification number 33	Emergency schedules (EmS) F-E, S-E	Passenger aircraft 353: 5 L  Cargo aircraft
				364: 60 L



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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Hazard notes: Not available

Hazard notes: Highly flammable

Flash point (closed up): -14°C (DIN51755) Environmentally hazardoux substance.

Narcotic vapour.

Keep separated from foodstuffs.

## 15. Regulatory information

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

EU Regulation (EC) No.1907/2006 (REACH)

Annex XIV – List of substances subject to authorization: None of the components are listed.

Substances of very high concern: None of the components are listed.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	EC number	CAS no.	Restriction
2,2,4-trimethylpentane	208-759-1	540-84-1	3

Other EU regulations

Seveso Directive: This product is controlled under the Seveso III Directive.

#### Danger criteria:

## Category

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

E1: hazardous to the aquatic environment – Acute 1 or Chronic 1 C7b: Highly flammable (R11)

C9i: Very toxic for the environment

## 15.2 Chemical safety assessment

Complete.

#### 16. Other information

Indicates information that has changed from previously issued version.

#### **Abbreviations and acronyms:**

ATE = Acute Toxicity Estimate EUH statement = CLP-specific Hazard statement

CLP = Classification, Labelling and Packaging PBT = Persistent, Bioaccumulative and Toxic Regulation [Regulation (EC) No. 1272/2008] PNEC = Predicted No Effect Concentration

DMEL = Derived Minimal Effect Level RRN = REACH Registration Number

DNEL = Derived No Effect Level vPvB = Very Persistent and Very Bioaccumulative



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# Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Expert judgement
STOT SE 3, H336	Calculation method
Asp. Tox. 1, H304	Expert judgement
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

# **Full text of abbreviated H statements**

H225 H304 H315	Highly flammable liquid and vapour.  May be fatal if swallowed and enters airways.  Causes skin irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

# Full text of classifications [CLP/GHS]

Aquatic Acute 1, H400	ACUTE AQUATIC HAZARD - Category 1
Aquatic Chronic 1, H410	LONG-TERM AQUATIC HAZARD - Category 1
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	(Narcotic effects) - Category 3

# Wording of the instructions for use according to Use Descriptor System, to which reference is made in paragraph 1:

PROC01	Use in closed process, no likelihood of exposure
PROC02	Use in closed, continuous process with occasional controlled exposure
PROC03	Use in closed batch process (synthesis or formulation)
PROC04	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC05	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC08a	Transfer of substance or preparation (charging/ discharging) from/to vessels/large containers at non-dedicated facilities
PROC08b	Transfer of substance or preparation (charging/ discharging) from/to vessels/large containers at dedicated facilities
PROC09	Transfer of substance or preparation intosmall containers (dedicated filling line, including weighing)
PROC14	Production of preparations or articles by tabletting, compression, extrusion, pelletisation
PROC15	Use a laboratory reagent
SU08	Manufacture of bulk, large scale chemicals (including petroleum products)
SU09	Manufacture of fine chemicals