

Safety Data Sheet

Production date: 18.09.2019

According to Regulation (EU) No 2015/830

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

| | |
|---|--|
| · Product name | HIKOKI CLEANER |
| · Product code: | 714805 |
| · Application | SU21 Consumer product. PC35 Cleaning agent. PC0 Other. Tool maintenance |
| Supplier: | Hikoki Power Tools Netherlands BV Brabanthaven 11 NL-3433 PJ Nieuwegein Tel.: +0031-(0)30-6084040 |
| · Further information obtainable from: | Product safety department msds@Hikoki-accessories.eu |
| Information in case of emergency: | 0031 (0)30-6084040 |

2 Hazards identification

2.1 Classification of the substance or mixture

| | |
|--|---|
| · CLP classification (1272/2008/EC) | Aerosols, category 1. Skin irritation, category 2. Specific target organ toxicity after single exposure, category 3. Hazardous to the aquatic environment — Chronic category 2. |
| · Human health hazards | Causes skin irritation. May cause drowsiness or dizziness. Exposure to high vapour concentrations may result in a narcotic effect. Use only as directed. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal. |
| · Physical/chemical hazards | Extremely flammable. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C. |
| · Environmental hazards | Toxic to aquatic life with long lasting effects. |
| · Other information | Caution: Do not breathe spray. Use only in well-ventilated areas. Spray in short intervals for a short period only. Ventilate well after use. Harmful to house pets. |

2.2 Label elements Label elements (1272/2008/EC) Hazard pictograms

Signal word



Danger

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· H- and P-phrases

- H222 Extremely flammable aerosol.
- H229 Pressurised container: May burst if heated.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- 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.
- P251 Do not pierce or burn, even after use.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P405 Store locked up.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- P501 Dispose of contents/container to an official chemical waste depot.

**· Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:
Hazard pictograms**



Signal word

Danger

· H- and P-phrases

- H222 Extremely flammable aerosol.
- H229 Pressurised container: May burst if heated.
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- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P271 Use only outdoors or in a well-ventilated area.
- P405 Store locked up.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- P501 Dispose of contents/container to an official chemical waste depot.

· Additional labelling (for all packaging sizes)

Contains: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane .

Ingredient declaration according to Regulation EC 648/2004:

| Contains: | Concentration (%) |
|------------------------|-------------------|
| Aliphatic hydrocarbons | > 30 |

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2.3 Other hazards Other information

The classification of this product is based on the non-aerosolised form of the mixture (on basis of section 1.1.3.7. of Regulation (EC) No 1272/2008). Does not contain PBT or vPvB substances.

3 Composition/information on ingredients

· Mixtures

Product description

Mixture.

Information on hazardous substances:

| Substance name | Concentration (w/w) (%) | CAS nr. | EC number | Remark | REACH nr. |
|---|-------------------------|----------|-----------|--------|------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 75 - < 100 | ----- | 921-024-6 | | 01-2119475514-35 |
| Butane | 10 - < 25 | 106-97-8 | 203-448-7 | | 01-2119474691-32 |
| Propane | 2,5 - < 10 | 74-98-6 | 200-827-9 | | 01-2119486944-21 |
| Carbon dioxide | 2,5 - < 10 | 124-38-9 | 204-696-9 | | |
| Isobutane | 1 - < 2,5 | 75-28 | 200-857-2 | | 01-2119485395-27 |

| Substance name | Hazard Class | H-phrases | Pictograms |
|---|--|------------------------------|----------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | Flam. Liq. 2; Skin Irrit. 2; Asp. Tox. 1; STOT SE 3; Aquatic Chronic 2 | H225; H315; H304; H336; H411 | GHS02; GHS07; GHS08; GHS09 |
| Butane | Flam. Gas 1; Press. Gas | H220; H280 | GHS02; GHS04 |
| Propane | Flam. Gas 1; Press. Gas | H220; H280 | GHS02; GHS04 |
| Carbon dioxide | Press. Gas (Diss.) | H280 | GHS04 |
| Isobutane | Flam. Gas 1; Press. Gas | H220; H280 | GHS02; GHS04 |

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

4 First-aid measures

4.1 Description of first aid measures

· First aid measures

Inhalation

Move victim into fresh air. Consult a doctor if victim feels unwell

· Skin contact

Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation persists.

· Eye contact

Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor if irritation persists.

· Ingestion

Aerosol or mist: Ingestion is unlikely to occur.

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4.2 Most important symptoms and effects, both acute and delayed

· Effects and symptoms

Inhalation

May cause headache, drowsiness, dizziness and a feeling of sickness. May cause irritation to respiratory airways and coughing.

· Skin contact

Irritant. May cause redness. Repeated exposure may cause skin dryness or cracking.

· Eye contact

May cause stinging of eyes and redness.

· Ingestion

Aerosol or mist: Ingestion is unlikely to occur.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians

None known.

5 Fire-fighting measures

5.1 Extinguishing media

Extinguishing media

Suitable

Carbondioxide (CO₂). Foam. Dry chemical. Water fog.

Not suitable

Water jet.

5.2 Special hazards arising from the substance or mixture

Special exposure hazards

Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C. Do not expose emergency personnel to overheated aerosol containers. Water may be used to cool container and prevent explosion of the aerosol.

Hazardous thermal decomposition products

Carbon monoxide may be evolved if incomplete combustion occurs.

5.3 Advice for firefighters

Special protective equipment for fire-fighters

Fight a fire where aerosols are involved from a protected position. Use adequate respiratory equipment in case of insufficient ventilation.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Do not breathe vapours and/or spray. Keep away from sources of ignition — No smoking. Build up of highly flammable gasses involves an explosion risk. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

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6.2 Environmental precautions

Avoid release of product into sewers, surface water and/or ground water. Waste product should not be allowed to contaminate soil or water.

Other information

Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3 Methods and material for containment and cleaning up

· Methods for cleaning up

Collect spilled material in containers. Collect aerosol cans in an approved container. Do not pierce aerosols. Wash away remainder with plenty of water and soap.

6.4 Reference to other sections

See also section 8.

7 Handling and storage

7.1 Precautions for safe handling

· Handling:

Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Keep away from sources of ignition – No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not breathe spray. Do not breathe vapour. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

7.2 Conditions for safe storage, including any incompatibilities

· Storage

Keep frost-free, in a cool (< 35°), dry and well-ventilated place. Protect from sunlight and keep away from heat..

· Recommended packaging

Not applicable.

7.3 Specific end use(s)

· Use

Use only as directed. Do not mix with other products.

8 Exposure controls/personal protection

8.1 Control parameters

· Occupational exposure limits

Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

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Workplace exposure limits (mg/m³):

| Chemical name | Country | TWA 8 hour (mg/m ³) | STEL 15 min (mg/m ³) | Comments | Source |
|---|---------|---------------------------------------|--|------------|------------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | | 1200 | | CEFIC-HSPA | |
| Butane | GB | 1450 | 1810 | - | MAC: MSDS Aeron Butane |
| Butane | | 1450 | 1810 | | MAC: BG, PL, CH, SL, etc |
| Propane | | 1800 | - | | |
| Carbon dioxide | GB | 9150 | 27400 | | |
| Carbon dioxide | EC | 9000 | - | | |
| Isobutane | | 1900 | 2400 | | MAC: FI, BE, CH |

Derived no-effect level (DNEL) for workers:

| Chemical name | Route of exposure | DNEL, short-term | | DNEL, long-term | |
|---|----------------------|------------------|-----------------|-----------------|--|
| | | Local effect | Systemic effect | Local effect | Systemic effect |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | Dermal Inhalation | | | | 773 mg/kg bw/day 2035 mg/m ³ |

Derived no-effect level (DNEL) for consumers:

| Chemical name | Route of exposure | DNEL, short-term | | DNEL, long-term | |
|---|------------------------------|------------------|-----------------|-----------------|---|
| | | Local effect | Systemic effect | Local effect | Systemic effect |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | Dermal Inhalation Oral | | | | 699 mg/kg bw/day 608 mg/m ³ |

8.2 Exposure controls

· **Engineering measures**

Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.

· **Hygienic measures**

When using do not eat, drink or smoke.

· **Personal protective equipment:**

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

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- **Body protection:** Use of specific protective industrial clothing is not required for momentary use. Wear suitable protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345 in case of frequent or prolonged use and in case of large scale exposure. Suitable material: nitril. Indication of permeation breakthrough time: 6 hours.
- **Respiratory protection:** Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.
- **Hand protection** Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. ± 0,5 mm. Indication of permeation breakthrough time: 6 hours.
- **Eye protection** Wear appropriate safety glasses when there is danger of possible eye contact.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | | |
|---|---------------------|--|
| · Appearance | Aerosol | |
| · Colour | Colourless | |
| · Odour | Characteristic | |
| · Odour threshold | Not known | |
| · pH | Not applicable | Waterfree product |
| · Solubility in water | | Active ingredients not soluble. Propellant(s) partially soluble. |
| · Partition coefficient (n- octanol/water) | Not known | Not measured. Not relevant for mixtures. |
| · Flash point | Not applicable | Not measurable |
| · Flammability (solid, gas) | Extremely flammable | Contains ≥ 85% flammable components and has a heat of combustion of ≥ 30 kJ/g. |

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| | | |
|--|---|--|
| <ul style="list-style-type: none"> · Auto ignition temperature · Boiling point/boiling range · Melting point/melting range · Explosive properties · Explosion limits (% in air) · Oxidising properties · Decomposition temperature · Viscosity (20°C) · Viscosity (40°C) · Vapour pressure (20°C) · Vapour density (20°C) · Relative density (20°C) · Evaporation rate | <p>Not applicable</p> <p>Not known</p> <p>Not known</p> <p>Not applicable</p> <p>0,8 - 10,9</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not known</p> <p>Not known</p> <p>530000 Pa</p> <p>> 1</p> <p>0,7 g/ml</p> <p>Not known</p> | <p>Aerosol container explodes before reaching the auto-ignition point.</p> <p>Not measurable.</p> <p>Pressurised container: May burst if heated.</p> <p>Does not contain oxidizing substances</p> <p>Aerosol explodes before reaching the decomposition temperature</p> <p>Not measurable</p> <p>Not measurable</p> <p>(air = 1)</p> <p>(n-butyl acetate = 1) Not relevant. Mixture of gases, liquids and solids</p> |
| <p>9.2 Other information</p> | <p>Not relevant.</p> | |

10 Stability and reactivity

| | |
|---|---|
| <p>10.1 Reactivity</p> | <p>See sub-sections below</p> |
| <p>10.2 Chemical stability</p> | <p>Stable under normal conditions.</p> |
| <p>10.3 Possibility of hazardous reactions</p> | |
| <ul style="list-style-type: none"> · Reactivity | <p>No other hazardous reactions known.</p> |
| <p>10.4 Conditions to avoid</p> | <p>Keep away from sources of ignition and sources of heat. See section 7.</p> |
| <p>10.5 Incompatible materials</p> | |
| <ul style="list-style-type: none"> · Materials to avoid | <p>Not applicable</p> |
| <p>10.6 Hazardous decomposition products</p> | <p>Not known.</p> |

11 Toxicological information

11.1 Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

- **Acute toxicity:** Calculated LC50: > 8,749 mg/l. Ingredients of unknown toxicity: < 1 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause damage to organs. Target organ(s): Central nervous system. Effect(s): Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, lightheadedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.
- **Corrosion/irritation** May cause irritation to respiratory airways and coughing. Not classified - based on available data, the classification criteria are not met.
- **Sensitisation** Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- **Carcinogenicity** Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met. Does not contain carcinogenic substances.
- **Mutagenicity** Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

- **Acute toxicity** Calculated LD50: no data mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- **Corrosion/irritation** Irritant. May cause redness. Prolonged contact may dry out and defat the skin.
- **Sensitisation** Does not contain skin sensitisers. Not classified - based on available data, the classification criteria are not met.
- **Mutagenicity** Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

- **Corrosion/irritation** Slight irritation possible. Not classified - based on available data, the classification criteria are not met.

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Ingestion

· **Acute toxicity**

Aerosol or mist: Ingestion is unlikely to occur. Calculated LD50: 1145 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.

· **Aspiration**

Aerosol or mist: Ingestion is unlikely to occur. Not classified - based on available data, the classification criteria are not met.

· **Corrosion/irritation**

Aerosol or mist: Ingestion is unlikely to occur. May cause a feeling of sickness, stomachache, vomiting and diarrhoea.

· **Carcinogenicity**

Aerosol or mist: Ingestion is unlikely to occur. Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.

· **Mutagenicity**

Aerosol or mist: Ingestion is unlikely to occur. Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

· **Reprotoxicity**

Aerosol or mist: Ingestion is unlikely to occur. Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

| Chemical name | Property | | Method | Test animal |
|---|--|------------------|-------------|-------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | LD50 (oral) - estimate | > 5840 mg/kg bw | Read across | Rat |
| | LD50 (dermal) -estimate | > 2800 mg/kg bw | | Rat |
| | NOAEL (inhalation) - estimate | 8117 mg/m3 | Read across | Rat |
| | Mutagenicity - estimate | Negative | Read across | |
| | Genotoxicity - estimate | Not genotoxic | Read across | |
| | Skin irritation | Non-irritant | OECD 404 | Rabbit |
| | Eye irritation - estimate | Not sensitizing | Read across | |
| | Skin sensitisation - estimate | Not carcinogenic | Read across | |
| | NOEL (carcinogenicity) carcinogenicity) - estimate | > 25200 mg/m3 | Read across | ----- |
| | LC50 (inhalation) | | ----- | Rat |

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12 Ecological information

12.1 Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity

Toxic to aquatic organisms. Calculated LC50 (fish): 12 mg/l. Calculated EC50 (waterflea): 3 mg/l. Contains 0 % of components with unknown hazards to the aquatic environment.

12.2 Persistence – degradability

May cause long-term adverse effects in the aquatic environment.

12.3 Bioaccumulative potential

No specific information known.

12.4 Mobility in soil

Not applicable.

12.5 Results PBT/vPvB assessment

Does not contain PBT or vPvB substances.

12.6 Other adverse effects

Not applicable.

Ecological information:

| Chemical name | Property | | Method | Test animal |
|---|-------------------------------------|-------------|-------------|--------------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | LC50 (fish) | 11,4 3 mg/l | OECD 203 | Oncorhynchus mykiss |
| | EC50 (waterflea) | 3 mg/l | OECD 202 | Daphnia magna |
| | IC50 (algae) | > 10 mg/l | OECD 201 | Pseudokirchnerella subcapitata |
| | Ultimate aerobic biodegradation (%) | 98 % | Read across | |
| | NOEC (fish) - estimate | 2,045mg/l.d | ---- | ----- |
| | NOEC (daphnids) - estimate | 1 mg/l.d | OECD 211 | Daphnia magna |

13 Disposal considerations

13.1 Waste treatment methods

• Product residues

Recyclable metal container. Do not puncture or burn even after use. Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and nonempty pack as hazardous waste.

• Additional warning

Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.

• European waste catalogue

Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

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· **Local legislation**

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

14 Transport information

14.1 · UN nr. UN 1950

14.2 · UN proper shipping name

Transport name AEROSOLS

Transport name (IMDG,IATA) AEROSOLS

14.3/14.4/14.5 Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class 2

Classification code 5F

Packaging group -

Danger label 2,1 + the “environmentally hazardous substance” mark.

Tunnel restriction code D



Other information

Not intended for carriage by tank-vessels on inland waterways. Packagings with a quantity of 5 l or less for liquids or 5 kg, or less for solids need not be marked with the environmentally hazardous substance mark.

IMDG (sea)

Class 2,1

Packaging group -

EmS (fire / spill) F - D / S - U

Marine pollutant Yes

Other information Packagings with a quantity of 5 l or less for liquids or 5 kg, or less for solids need not be marked with the environmentally hazardous substance mark.

IATA (air)

Class 2,1

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14.6 Special precautions for user

Other information

Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to the transport of this product.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

· Marpol

Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

15 Regulatory information

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

· Community regulations

Regulation (EU) No 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations.

This product is exempted from classification as "May be fatal if swallowed and enters airways" on basis of section 3.10.1.6.3. of Annex I of Regulation (EC) No 1272/2008

In the UK it is recommended that all aerosols should be labelled on the back with the warning about the dangers of volatile solvent abuse. The label should contain the badge 'Solvent Abuse Can Kill Instantly' accompanied by the phrase 'Use only as directed'.

15.2 Chemical safety assessment

Not applicable.

16 Other information

16.1 Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2015/830 dated 28 May 2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

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| | |
|--------------------|---|
| • ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| • ATE | Acute Toxicity Estimate |
| • CLP | Classification, Labeling & Packaging |
| • CMR | Carcinogenic, Mutagenic or toxic for Reproduction |
| • EEC | European Economic Community |
| • GHS | Globally Harmonized System of Classification and Labelling of Chemicals |
| • IATA | International Air Transport Association |
| • IBC code | International Bulk Chemical Code |
| • IMDG | International Maritime Dangerous Goods Code |
| • LD50/LC50 | Lethal Dose/Concentration for 50% of a population |
| • MAC | Maximum Allowable Concentration |
| • MARPOL | International Convention for the Prevention of Pollution From Ships |
| • NO(A)EL | No Observed (Adverse) Effect Level |
| • OECD | Organisation for Economic Co-operation and Development |
| • PBT | Persistent, Bioaccumulative and Toxic |
| • PC | Chemical product category |
| • PT | Product type |
| • REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| • RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| • STP | Sewage Treatment Plant |
| • SU | Sector of Use |
| • TWA/STEL | Time-Weighted Average/Short Term Exposure Limit |
| • UN | United Nations |
| • VOC | Volatile Organic Compounds |
| • vPvB | Very Persistent and Very Bioaccumulative |

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

| | |
|--------------------------|--------------------|
| Flam. Aer. 1 | Expert judgement |
| Skin Irrit. 2 | Calculation method |
| STOT SE 3 | Calculation method |
| Aquatic Chronic 2 | Calculation method |

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Full text of hazard classes mentioned in section 3:

| | |
|--------------------------|--|
| Flam. Gas 1 | Flammable gas, category 1 |
| Flam. Liq. 2 | Flammable liquid, category 2 |
| Skin Irrit. 2 | Skin irritation, category 2 |
| Press. Gas | Gases under pressure. |
| STOT SE 3 | Specific target organ toxicity after single exposure, category 3 |
| Asp. Tox. 1 | Aspiration hazard, category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic category 2 |

Full text of H-phrases mentioned in section 3:

| | |
|-------------|--|
| H220 | Extremely flammable gas |
| H225 | Highly flammable liquid and vapour |
| H280 | Contains gas under pressure; may explode if heated |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H336 | May cause drowsiness or dizziness |
| H411 | Toxic to aquatic life with long lasting effects |

Advice on any training appropriate for workers: none

Number format “,” used as decimal separator