

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.06.2015

Version number 43

Revision: 02.06.2015

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

- **1.1 Product identifier**
- **Trade name:** MOTIP HEAT RESISTANT CLEAR LACQUER
- **Article number:** 04033
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Paint
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
MOTIP DUPLI B.V.  
Wolframweg 2  
NL- 8471 XC Wolvega  
The Netherlands  
Tel: +31 (0)561 694400  
Fax: +31 (0)561 694411  
e-mail info@nl.motipdupli.com
- **Further information obtainable from:** QHSE Department
- **1.4 Emergency telephone number:** +31 (0)561-694400 (09:00h - 17:00h)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R36: Irritating to eyes.



F+; Extremely flammable

R12: Extremely flammable.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Warning! Pressurised container.

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Has a narcotising effect.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02    GHS05    GHS07

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**

butan-1-ol

acetone

n-butyl acetate

· **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P102 Keep out of reach of children.

P260 Do not breathe spray.

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

P251 Do not pierce or burn, even after use.

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

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

P501 Dispose of contents/container in accordance with local regulations.

· **Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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

· **3.2 Chemical characterisation: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

|                                |                                     |        |
|--------------------------------|-------------------------------------|--------|
| CAS: 67-64-1                   | acetone                             | 25-50% |
| EINECS: 200-662-2              | Xi R36                              |        |
| Index number: 606-001-00-8     | F R11                               |        |
| Reg.nr.: 01-2119471330-49-xxxx | R66-67                              |        |
|                                | Flam. Liq. 2, H225                  |        |
|                                | Eye Irrit. 2, H319; STOT SE 3, H336 |        |

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|   |   |          |
|---|---|----------|
| CAS: 74-98-6<br>EINECS: 200-827-9<br>Index number: 601-003-00-5<br>Reg.nr.: 01-2119486944-21-xxxx   | propane<br> F+ R12<br>-----<br> Flam. Gas 1, H220<br>Press. Gas C, H280   | 12.5-20% |
| CAS: 106-97-8<br>EINECS: 203-448-7<br>Index number: 601-004-00-0<br>Reg.nr.: 01-2119474691-32-xxxx  | butane<br> F+ R12<br>-----<br> Flam. Gas 1, H220<br>Press. Gas C, H280  | 10-12.5% |
| CAS: 75-28-5<br>EINECS: 200-857-2<br>Index number: 601-004-00-0<br>Reg.nr.: 01-2119485395-27-xxxx   | isobutane<br> F+ R12<br>-----<br> Flam. Gas 1, H220<br>Press. Gas C, H280   | 5-10%    |
| CAS: 108-65-6<br>EINECS: 203-603-9<br>Index number: 607-195-00-7<br>Reg.nr.: 01-2119475791-29-xxxx  | 2-methoxy-1-methylethyl acetate<br>R10<br>-----<br> Flam. Liq. 3, H226   | 5-10%    |
| CAS: 123-86-4<br>EINECS: 204-658-1<br>Index number: 607-025-00-1<br>Reg.nr.: 01-2119485493-29-xxxx  | n-butyl acetate<br>R10-66-67<br>-----<br> Flam. Liq. 3, H226<br> STOT SE 3, H336  | 5-10%    |
| CAS: 71-36-3<br>EINECS: 200-751-6<br>Index number: 603-004-00-6<br>Reg.nr.: 01-2119484630-38-xxxx   | butan-1-ol<br> Xn R22<br> Xi R37/38-41<br>R10-67<br>-----<br> Flam. Liq. 3, H226<br> Eye Dam. 1, H318<br> Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336 | 2.5-5%   |
| CAS: 1330-20-7<br>EINECS: 215-535-7<br>Index number: 601-022-00-9<br>Reg.nr.: 01-2119488216-32-xxxx | xylene<br> Xn R20/21<br> Xi R38<br>R10<br>-----<br> Flam. Liq. 3, H226<br> Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315  | 1-2.5%   |

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

#### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

#### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

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- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

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

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Keep away from ignition sources.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

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

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**  
Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

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

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

**67-64-1 acetone**

|     |  |
|-----|--|
| WEL | Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm<br>Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm |
|-----|--|

**106-97-8 butane**

|     |   |
|-----|---|
| WEL | Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm<br>Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm<br>Carc (if more than 0.1% of buta-1,3-diene) |
|-----|---|

**108-65-6 2-methoxy-1-methylethyl acetate**

|     |  |
|-----|--|
| WEL | Short-term value: 548 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 274 mg/m <sup>3</sup> , 50 ppm |
| Sk  |  |

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**123-86-4 n-butyl acetate**

WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppm  
Long-term value: 724 mg/m<sup>3</sup>, 150 ppm

**71-36-3 butan-1-ol**

WEL Short-term value: 154 mg/m<sup>3</sup>, 50 ppm  
Sk

**1330-20-7 xylene**

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
Sk; BMGV

· **Ingredients with biological limit values:****1330-20-7 xylene**

BMGV 650 mmol/mol creatinine  
Medium: urine  
Sampling time: post shift  
Parameter: methyl hippuric acid

· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.· **Protection of hands:** Not required.· **Material of gloves:** Not required.· **Penetration time of glove material:** Not required.· **Eye protection:**

Tightly sealed goggles

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

**Form:** Aerosol  
**Colour:** According to product specification  
· **Odour:** Characteristic  
· **Odour threshold:** Not determined.

· **pH-value:** Not determined.· **Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** Not applicable, as aerosol.

· **Flash point:** < 0 °C (< 32 °F)  
Not applicable, as aerosol.

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|   |   |
|---|---|
| · <b>Flammability (solid, gaseous):</b>           | Not applicable.   |
| · <b>Ignition temperature:</b>                    | 333 °C (631 °F)   |
| · <b>Decomposition temperature:</b>               | Not determined.   |
| · <b>Self-igniting:</b>                           | Product is not selfigniting.  |
| · <b>Danger of explosion:</b>                     | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · <b>Explosion limits:</b>                        |   |
| <b>Lower:</b>                                     | 1.5 Vol %   |
| <b>Upper:</b>                                     | 13.0 Vol %  |
| · <b>Vapour pressure at 20 °C (68 °F):</b>        | 3500 hPa (2625 mm Hg)   |
| · <b>Density at 20 °C (68 °F):</b>                | 0.74373 g/cm <sup>3</sup> (6.206 lbs/gal)   |
| · <b>Relative density</b>                         | Not determined.   |
| · <b>Vapour density</b>                           | Not determined.   |
| · <b>Evaporation rate</b>                         | Not applicable.   |
| · <b>Solubility in / Miscibility with water:</b>  | Not miscible or difficult to mix.   |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.   |
| · <b>Viscosity:</b>                               |   |
| <b>Dynamic:</b>                                   | Not determined.   |
| <b>Kinematic:</b>                                 | Not determined.   |
| · <b>Solvent content:</b>                         |   |
| <b>Organic solvents:</b>                          | 96.0 %  |
| · <b>EU-VOC:</b>                                  | 714.2 g/l   |
| · <b>EU-VOC in %:</b>                             | 96.03 %   |
| · <b>Solids content:</b>                          | 6.9 %   |
| · <b>9.2 Other information</b>                    | No further relevant information available.  |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:**

**67-64-1 acetone**

|            |            |                            |
|------------|------------|----------------------------|
| Oral       | LD50       | 5800 mg/kg (rat)           |
| Dermal     | LD50       | 20000 mg/kg (rabbit)       |
| Inhalative | LC50 / 4 h | 39 mg/m <sup>3</sup> (rat) |

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**106-97-8 butane**

|            |            |                                |
|------------|------------|--------------------------------|
| Inhalative | LC50 / 4 h | 658000 mg/m <sup>3</sup> (rat) |
|------------|------------|--------------------------------|

**108-65-6 2-methoxy-1-methylethyl acetate**

|            |            |                              |
|------------|------------|------------------------------|
| Oral       | LD50       | 8532 mg/kg (rat)             |
| Dermal     | LD50       | >5000 mg/kg (rabbit)         |
| Inhalative | LC50 / 4 h | 35.7 mg/m <sup>3</sup> (rat) |

**123-86-4 n-butyl acetate**

|            |            |                               |
|------------|------------|-------------------------------|
| Oral       | LD50       | 10770 mg/kg (rat)             |
| Dermal     | LD50       | >17600 mg/kg (rabbit)         |
| Inhalative | LC50 / 4 h | >21.0 mg/m <sup>3</sup> (rat) |

**71-36-3 butan-1-ol**

|            |            |                               |
|------------|------------|-------------------------------|
| Oral       | LD50       | 2292 mg/kg (rat)              |
| Dermal     | LD50       | 3430 mg/kg (rabbit)           |
| Inhalative | LC50 / 4 h | 17.76 mg/m <sup>3</sup> (rat) |

**1330-20-7 xylene**

|            |            |                              |
|------------|------------|------------------------------|
| Oral       | LD50       | 3523 mg/kg (rat)             |
| Dermal     | LD50       | 2000 mg/kg (rabbit)          |
| Inhalative | LC50 / 4 h | 22.1 mg/m <sup>3</sup> (rat) |

· **Primary irritant effect:**· **Skin corrosion/irritation** No irritant effect.· **Serious eye damage/irritation** Irritating effect.· **Respiratory or skin sensitisation** No sensitising effects known.· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant

**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****67-64-1 acetone**

|                      |                           |
|----------------------|---------------------------|
| EC50 / 48 h          | 8800 mg/l (daphnia magna) |
| LC50 / 48 h          | 2262 mg/l (daphnia magna) |
| LC50 / 96 h (static) | 5540 mg/l (fish)          |

**108-65-6 2-methoxy-1-methylethyl acetate**

|      |                          |
|------|--------------------------|
| EC50 | 408 mg/l (daphnia magna) |
|------|--------------------------|

**123-86-4 n-butyl acetate**

|             |                               |
|-------------|-------------------------------|
| EC50 / 48 h | 44 mg/l (daphnia magna)       |
| EC50 / 96 h | 320 mg/l (algae)              |
| LC50 / 24 h | 205 mg/l (daphnia magna)      |
| LC50 / 96 h | 18 mg/l (Pimephales promelas) |

**71-36-3 butan-1-ol**

|             |                                 |
|-------------|---------------------------------|
| EC50 / 48 h | 1328 mg/l (daphnia magna)       |
| EC50 / 72 h | 8500 mg/l (algae)               |
| LC50 / 96 h | 1376 mg/l (Pimephales promelas) |

**1330-20-7 xylene**

|             |                          |
|-------------|--------------------------|
| EC50 / 48 h | 7.4 mg/l (daphnia magna) |
|-------------|--------------------------|

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|             |                  |
|-------------|------------------|
| LC50 / 96 h | 13.5 mg/l (fish) |
|-------------|------------------|

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.


|                                   |   |
|-----------------------------------|---|
| · <b>European waste catalogue</b> |   |
| 08 01 11*                         | waste paint and varnish containing organic solvents or other dangerous substances |
| 15 01 04                          | metallic packaging  |

- |           |   |
|-----------|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other dangerous substances |
| 15 01 04  | metallic packaging  |

- **Uncleaned packaging:**
- **Recommendation:** Non contaminated packagings may be recycled.

### SECTION 14: Transport information

- |                                       |                     |
|---------------------------------------|---------------------|
| · <b>14.1 UN-Number</b>               |                     |
| · <b>ADR, IMDG, IATA</b>              | UN1950              |
| · <b>14.2 UN proper shipping name</b> |                     |
| · <b>ADR</b>                          | 1950 AEROSOLS       |
| · <b>IMDG</b>                         | AEROSOLS            |
| · <b>IATA</b>                         | AEROSOLS, flammable |

|   |             |
|---|-------------|
| · <b>14.3 Transport hazard class(es)</b>  |             |
| · <b>ADR</b>  |             |
|  |             |
| · <b>Class</b>  | 2 5F Gases. |
| · <b>Label</b>  | 2.1         |



- |   |     |
|---|-----|
| · <b>IMDG, IATA</b>   |     |
|  |     |
| · <b>Class</b>  | 2.1 |
| · <b>Label</b>  | 2.1 |



- |                             |      |
|-----------------------------|------|
| · <b>14.4 Packing group</b> |      |
| · <b>ADR, IMDG, IATA</b>    | Void |



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|   |  |
|---|--|
| · <b>14.5 Environmental hazards:</b>  |  |
| · <b>Marine pollutant:</b>  | No   |
| · <b>14.6 Special precautions for user</b>  | Warning: Gases.                                |
| · <b>Danger code (Kemler):</b>  | -  |
| · <b>EMS Number:</b>  | F-D,S-U  |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                |
| · <b>Transport/Additional information:</b>  |  |
| · <b>ADR</b>  |  |
| · <b>Limited quantities (LQ)</b>  | 1L   |
| · <b>Excepted quantities (EQ)</b>   | Code: E0<br>Not permitted as Excepted Quantity |
| · <b>Transport category</b>   | 2  |
| · <b>Tunnel restriction code</b>  | D  |
| · <b>IMDG</b>   |  |
| · <b>Limited quantities (LQ)</b>  | 1L   |
| · <b>Excepted quantities (EQ)</b>   | Code: E0<br>Not permitted as Excepted Quantity |
| · <b>UN "Model Regulation":</b>   | UN1950, AEROSOLS, 2.1                          |

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- R10 Flammable.
- R11 Highly flammable.
- R12 Extremely flammable.
- R20/21 Harmful by inhalation and in contact with skin.
- R22 Harmful if swallowed.
- R36 Irritating to eyes.
- R37/38 Irritating to respiratory system and skin.

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- R38 Irritating to skin.  
 R41 Risk of serious damage to eyes.  
 R66 Repeated exposure may cause skin dryness or cracking.  
 R67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS:** R&D legislation and regulatory advisor

· **Contact:** Mr. K. Smedeman

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas C: Gases under pressure: Compressed gas

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· **\* Data compared to the previous version altered.**

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