Safety Data Sheet

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

1.1. Product identifier
Product name
BRAKE FLUID DOT 4 PLUS – 402406-403400

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use
BRAKE FLUID DOT 4 PLUS (for B2C)

Identified Uses
Functional Fluids
Industrial 
Professional 
Consumer 

1.3. Details of the supplier of the safety data sheet
Name
Valeo Service Africa & Overseas
Full address
70 rue Pleyel
93285 Saint Denis Cedex
France
Tel. +33 (0)1 49 45 32 32

e-mail address of the competent person responsible for the Safety Data Sheet
vsao.contact.mailbox@valeo.com

1.4. Emergency telephone number
For urgent inquiries refer to
+33 (0)1 49 45 32 32 (business hours)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:
Reproductive toxicity, category 2
H361d Suspected of damaging the unborn child.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.
Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

Hazard pictograms:

Signal words: Warning

Hazard statements:

H361d Suspected of damaging the unborn child.

Precautionary statements:

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
P102 Keep out of reach of children.
P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P101 If medical advice is needed, have product container or label at hand.
P405 Store locked up.
P201 Obtain special instructions before use.

Contains: tris[2-(2-methoxyethoxy)ethoxy]ethyl] borate

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

<table>
<thead>
<tr>
<th>Identification</th>
<th>x = Conc. %</th>
<th>Classification 1272/2008 (CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>tris[2-(2-methoxyethoxy)ethyl] borate</td>
<td>60 ≤ x &lt; 70</td>
<td>Repr. 2 H361d</td>
</tr>
<tr>
<td>CAS 30989-05-0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC 250-418-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INDEX</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reg. no. 01-2119462824-33-xxxx</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DIETHYLENE GLYCOL MONOMETHYL ETHER

| CAS 111-77-3 | 1 ≤ x < 2 | Repr. 2 H361d |
The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.
Safety Data Sheet According to Annex II to REACH - Regulation 2015/830

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions
The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up
Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections
Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling
Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities
Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.
7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

<table>
<thead>
<tr>
<th>Country</th>
<th>Type</th>
<th>TWA/8h</th>
<th>STEL/15min</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>mg/m3</td>
<td>ppm</td>
</tr>
<tr>
<td>VLA</td>
<td>ESP</td>
<td>50,1</td>
<td>10</td>
</tr>
<tr>
<td>HTP</td>
<td>FIN</td>
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<tr>
<td>TLV</td>
<td>GRC</td>
<td>50,1</td>
<td>10</td>
</tr>
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<td>VLEP</td>
<td>ITA</td>
<td>50,1</td>
<td>10</td>
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<td>POL</td>
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<tr>
<td>TLV</td>
<td>ROU</td>
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</tr>
<tr>
<td>MV</td>
<td>SVN</td>
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<tr>
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DIETHYLENE GLYCOL MONOMETHYL ETHER

Threshold Limit Value

<table>
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<tr>
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<th>STEL/15min</th>
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</thead>
<tbody>
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<td>VLA</td>
<td>ESP</td>
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<tr>
<td>HTP</td>
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<tr>
<td>TLV</td>
<td>GRC</td>
<td>50,1</td>
<td>10</td>
</tr>
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<td>VLEP</td>
<td>ITA</td>
<td>50,1</td>
<td>10</td>
</tr>
<tr>
<td>NDS</td>
<td>POL</td>
<td>50</td>
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<td>VLE</td>
<td>PRT</td>
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<tr>
<td>TLV</td>
<td>ROU</td>
<td>50,1</td>
<td>10</td>
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<tr>
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<tr>
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</table>

DIETHYLENE GLYCOL

Threshold Limit Value
Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

<table>
<thead>
<tr>
<th>Type</th>
<th>Country</th>
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<th>STEL/15min</th>
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<tbody>
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<td></td>
<td></td>
<td>mg/m³</td>
<td>ppm</td>
</tr>
<tr>
<td>AGW</td>
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<td>44</td>
<td>10</td>
</tr>
<tr>
<td>MAK</td>
<td>DEU</td>
<td>44</td>
<td>10</td>
</tr>
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<td></td>
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<td>LTU</td>
<td>45</td>
<td>10</td>
</tr>
<tr>
<td>RV</td>
<td>LVA</td>
<td></td>
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<td>SVK</td>
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<td>10</td>
</tr>
<tr>
<td>MAK</td>
<td>SWE</td>
<td>45</td>
<td>10</td>
</tr>
</tbody>
</table>

Predicted no-effect concentration - PNEC

| Normal value in fresh water | 10 | mg/l |
| Normal value in marine water | 1 | mg/l |
| Normal value for marine water sediment | 20,9 | mg/kg |
| Normal value of STP microorganisms | 10 | mg/l |
| Normal value for the terrestrial compartment | 1,53 | mg/kg |

Health - Derived no-effect level - DNEL / DMEL

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Acute local</th>
<th>Acute systemic</th>
<th>Chronic local</th>
<th>Chronic systemic</th>
<th>Effects on consumers</th>
<th>Chronic local</th>
<th>Chronic systemic</th>
<th>Acute systemic</th>
<th>Acute local</th>
<th>Chronic local</th>
<th>Chronic systemic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>12 mg/m³</td>
<td></td>
<td></td>
<td>VND</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin</td>
<td></td>
<td></td>
<td></td>
<td>VND</td>
<td>53 mg/kg/d</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves wear time depends on the duration...
and type of use.

SKIN PROTECTION
Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

### SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>amber</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>7-11</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>&gt; 265 °C</td>
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<tr>
<td>Boiling range</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 100 °C</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability of solids and gases</td>
<td>not applicable</td>
</tr>
<tr>
<td>Lower inflammability limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper inflammability limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower explosive limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper explosive limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available</td>
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<tr>
<td>Relative density</td>
<td>1.010-1.080</td>
</tr>
</tbody>
</table>
Solubility: soluble
Partition coefficient: n-octanol/water: Not available
Auto-ignition temperature: > 350 °C
Decomposition temperature: Not available
Viscosity: Not available
Explosive properties: Not available
Oxidising properties: Not available

9.2. Other information

VOC (Directive 2010/75/EC): 0
VOC (volatile carbon): 0

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

Hygroscopic.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

DIETHYLENE GLYCOL MONOMETHYL ETHER

Reacts violently developing heat on contact with: alkaline metals, strong acids, strong oxidants, oleum. Fire hazard. Develops flammable gas on contact with: calcium hypochlorite. Develops hydrogen on contact with: aluminium.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

DIETHYLENE GLYCOL MONOMETHYL ETHER

Possibility of explosion with air due to production of peroxides.
10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

DIETHYLENE GLYCOL MONOMETHYL ETHER

When heated to decomposition releases: harsh fumes, zinc alloys.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:
Not classified (no significant component)
LD50 (Oral) of the mixture:
>2000 mg/kg
LD50 (Dermal) of the mixture:
Not classified (no significant component)

DIETHYLENE GLYCOL
LD50 (Oral) 12565 mg/kg Rat
LD50 (Dermal) 11890 mg/kg Rabbit

DIETHYLENE GLYCOL MONOMETHYL ETHER
LD50 (Oral) 5500 mg/kg Rat

SKIN CORROSION / IRRITATION
Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION
Does not meet the classification criteria for this hazard class

Serious eye damage/eye irritation
Product: Bovine cornea
Assessment: No eye irritation
Method: OECD Test Guideline 437
Result: No eye irritation
GLP: yes

RESPIRATORY OR SKIN SENSITISATION
Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY
Does not meet the classification criteria for this hazard class

CARCINOGENICITY
Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY
Suspected of damaging the unborn child

STOT - SINGLE EXPOSURE
Does not meet the classification criteria for this hazard class
STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

DIETHYLENE GLYCOL

LC50 - for Fish

> 75 g/l

12.2. Persistence and degradability

DIETHYLENE GLYCOL MONOMETHYL ETHER

Solubility in water

1000 - 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

DIETHYLENE GLYCOL MONOMETHYL ETHER

Partition coefficient: n-octanol/water

-0.47

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0.1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations
13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable
14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

**SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

<table>
<thead>
<tr>
<th>Product</th>
<th>Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Contained substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Point 54</td>
</tr>
</tbody>
</table>

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0.1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None
Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers’ health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

DIETHYLENE GLYCOL MONOMETHYL ETHER

DIETHYLENE GLYCOL

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

| Repr. 2 | Reproductive toxicity, category 2 |
| Acute Tox. 4 | Acute toxicity, category 4 |
| Eye Dam. 1 | Serious eye damage, category 1 |
| Skin Irrit. 2 | Skin irritation, category 2 |
| H361d | Suspected of damaging the unborn child. |
| H302 | Harmful if swallowed. |
| H318 | Causes serious eye damage. |
| H315 | Causes skin irritation. |

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

PEC: Predicted environmental Concentration
PEL: Predicted exposure level
PNEC: Predicted no effect concentration
REACH: EC Regulation 1907/2006
RID: Regulation concerning the international transport of dangerous goods by train
TLV: Threshold Limit Value
TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
TWA STEL: Short-term exposure limit
TWA: Time-weighted average exposure limit
VOC: Volatile organic Compounds
vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
WGK: Water hazard classes (German)

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
15. Regulation (EU) 2018/1480 (XII Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify their suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

msds for B2C.

Changes to previous review:
The following sections were modified:
01 / 02 / 03 / 08 / 09 / 11 / 12 / 13 / 15 / 16.