SAFETY DATA SHEET
ACCORDING TO Regulation (EC) No. 1907/2006
Date of Issue: 18.2.2000
Version: 5.1
Revision Date: 23.11.2016

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
Product name: OSTRAVIT C – permitted explosive

1.2 Relevant identified uses of the substance or mixture and uses advised against
Explosive for blasting operations. Do not use for other purposes.

1.3 Details of the supplier of the safety data sheet
Explosia a.s.
tel.: +420 466 825 202
530 02 Pardubice - Semtin fax: +420 466 822 941
Czech Republic e-mail: sds@explosia.cz

1.4 Emergency telephone number
Producer:
tel.: +420 466 824 402
fax: +420 466 824 448

National advisory body:
Toxicological Information Centre (TIS): Hospital for Occupational Diseases, Na Bojišti 1171/1, 128 21 Prague 2, tel. 224 919 293, 224 915 402 or 224 914 575

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
2.1.1 Classification according to Regulation (EC) No 1272/2008
Expl. 1.1; H 201
Acute.Tox.1; H310
Acute.Tox.2; H300
Acute.Tox.3; H331
STOT RE 2; H373
Eye Irrit.2; H319
Aquatic Chronic 3; H412

2.1.2 Classification according to Directive 67/548/EHS or 1999/45/ES
Explosive; E; R2.
Very toxic; T+: R26/27/28-33
Dangerous for the environment; R52/53.

2.1.3 Additional information
For full text of R-phrases and Hazard- and EU Hazard statements see section 16.

2.2 Label elements
Hazard pictograms:

Signal word: Danger.

Components of mixture for introducing on label:
Hazard statements:
H201  Explosive; mass explosion hazard.

Precautionary statements:
P501  Dispose of contents/container to national regulations for disposal of explosives.

Additional information on label:

Note:
Directive 1272/2008 stipulates in Annex 1, Art. 1.3.5 that explosives placed on the market with a view to obtaining an explosive or pyrotechnic effect shall be labelled and packaged in accordance with the requirements for explosives only, therefore the manufacturer marks the product on the basis of recommendations of the National Advisory Body with elements used for explosibility.

2.3 Other hazards
The product does not meet the criteria for PBT, vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Description of the mixture:
Mixture of sodium nitrate, ethyleneglycol dinitrate, glycerol trinitrate, ammonium chloride, nitrocellulose and other components not classified as dangerous.

Hazardous ingredients:

<table>
<thead>
<tr>
<th>Identification name</th>
<th>CAS No</th>
<th>ES No</th>
<th>Index No</th>
<th>Registration No</th>
<th>Content %</th>
<th>Classification according to 67/548/EEC</th>
<th>Classification according to (ES) 1272/2008 (CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium nitrate</td>
<td>7631-99-4</td>
<td>231-554-3</td>
<td>01-2119488221-41-XXXX</td>
<td>cca 47.0</td>
<td>O; R8</td>
<td>Xi; R36</td>
<td>Ox. Sol.3; H272</td>
</tr>
<tr>
<td>Ammonium chloride</td>
<td>12125-02-9</td>
<td>235-186-4</td>
<td>017-014-00-8</td>
<td>01-2119487950-27-XXXX</td>
<td>cca 34.0</td>
<td>Xn; R 22</td>
<td>Xi; R 36</td>
</tr>
<tr>
<td>Ethyleneglycol dinitrate</td>
<td>628-96-6</td>
<td>211-063-0</td>
<td>603-032-00-9</td>
<td>01-2119492860-31-XXXX</td>
<td>cca 7.5</td>
<td>E; R2</td>
<td>T+; R26/27/28-33</td>
</tr>
<tr>
<td>Glycerol trinitrate</td>
<td>55-63-0</td>
<td>2000-240-8</td>
<td>603-034-00-X</td>
<td>01-2119488893-18-XXXX</td>
<td>cca 3.5</td>
<td>E; R3</td>
<td>T+; R26/27/28</td>
</tr>
<tr>
<td>Nitrocellulose</td>
<td>9004-70-0</td>
<td>603-037-00-6</td>
<td>-</td>
<td>-</td>
<td>cca 0.15</td>
<td>E; R3</td>
<td></td>
</tr>
</tbody>
</table>

For full text of R-phrases and Hazard- and EU Hazard statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes:
In all cases keep the victim at physical and psychic rest and keep warm. Never give anything to an unconscious person. In heavy cases, always after contact with eyes and if swallowed, seek medical advice.

Following inhalation:
Break off the exposition. Move the victim to fresh air (not on the sun). If not breathing, give artificial respiration.
Following skin contact:
Remove contaminated clothing. Wash affected area with water and soap and use skin protective cream.

Following eye contact:
Rinse with water for at least 15 minutes. Move to the physician, while continue rinsing.

Following ingestion:
Rinse mouth with fresh water, give to drink some 0.2-0.3 l water containing active carbon (e.g. 5 tbs Carbsorb) and within not more than one hour induce vomiting (meaningless if induced later). Give active carbon repeatedly, no matter if the vomiting was induced or not. Seek medical advice. Do not induce vomiting in case of unconsciousness, convulsions or bad physical conditions.

4.2 Most important symptoms and effects, both acute and delayed
The mixture causes headaches, nausea, cyanosis, in heavy cases of intoxication unconsciousness or even death.

4.3 Indication of any immediate medical attention and special treatment needed
No data.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media: water spray. Adapt extinguishing media to the kind of fire.
Unsuitable extinguishing media: powders.

5.2 Special hazards arising from the substance or mixture
In case of burning: extreme danger of explosion. Try to prevent the spread of fire. If there is a danger of affecting the product by fire do not extinguish. Warn surroundings of danger of explosion and evacuate immediately to a safe distance.
In case of burning, toxic and irritant gases are formed.

5.3 Advice for fire-fighters
Self-contained breathing apparatus and protective clothing conforming to EN 469.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid the free movement of persons in contaminated area. Wear personal protective equipment. Avoid spreading of the product. Avoid contact of spilled material with open fire, electric sparks and aggressive chemical compounds.

6.2 Environmental precautions
Avoid discharge to surface- and groundwater. If it is not possible, inform police and fire-fighters.

6.3 Methods and material for containment and cleaning up
Sweep up spilled material and place in impermeable packages. Flush spill area with plenty of water. Dispose by explosion only in the place approved for disposal of explosives in accordance with national regulations relating to explosives.

6.4 Reference to other sections
More detailed disposal instructions see section 13, personal protective equipment see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Handle in accordance with regulations relating to explosives. Keep away from open flame, heat, do not eat, drink or smoke. Maximum care should be taken during handling (lifting, transferring, opening of containers) and transportation. Keep away from combustible material. Take precautionary measures against static discharges. Observe personal hygiene measures. Wear suitable protective clothing and gloves. Wash with water and soup thoroughly after handling. Ensure drink water for the first-aid.

7.2 Conditions for safe storage, including any incompatibilities
Store according to national regulations relating to explosives.
Maximum relative humidity 90 %. Recommended storage temperature -20 to +30 °C.

7.3 Specific end use(s)
Blasting operations. Observe safety regulations for processing of explosives.
To be used within 9 months after manufacturing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Exposition limits according to Czech government statute No. 361/2007 Sb. in actual version

<table>
<thead>
<tr>
<th>Substance / State</th>
<th>Long term mg/m³</th>
<th>Short term mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol trinitrate / Czech republic</td>
<td>PEL: 0.5</td>
<td>NPK-P: 1.0</td>
</tr>
<tr>
<td>Ethyleneglycol dinitrate / Czech republic</td>
<td>PEL: 0.5</td>
<td>NPK-P: 1.0</td>
</tr>
<tr>
<td>Ammonium chloride (fumes) / Czech republic</td>
<td>PEL: 5</td>
<td>NPK-P: 10</td>
</tr>
</tbody>
</table>

8.1.2 Monitoring procedures
To ensure observance of Czech government statute 361/2007 Sb. and to observe obligations included.

8.1.3 Biological limit values
Not determined in Czech Republic and European Union.

8.1.4 DNEL and PNEC values

Ammonium nitrate CAS 6484-52-2

<table>
<thead>
<tr>
<th>DNEL</th>
<th>Users</th>
<th>Route of study</th>
<th>Effects</th>
<th>Time of exposure</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workers</td>
<td>Inhalation</td>
<td>Systemic effects</td>
<td>Long-term</td>
<td>37.6 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Workers</td>
<td>Dermal</td>
<td>Systemic effects</td>
<td>Long-term</td>
<td>21.3 mg/kg/den</td>
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</tr>
<tr>
<td>General population</td>
<td>Inhalation</td>
<td>Systemic effects</td>
<td>Long-term</td>
<td>11.1 mg/m³</td>
<td></td>
</tr>
<tr>
<td>General population</td>
<td>Dermal</td>
<td>Systemic effects</td>
<td>Long-term</td>
<td>12.8 mg/kg/den</td>
<td></td>
</tr>
<tr>
<td>General population</td>
<td>Oral</td>
<td>Systemic effects</td>
<td>Long-term</td>
<td>12.8 mg/kg/den</td>
<td></td>
</tr>
</tbody>
</table>

PNEC

<table>
<thead>
<tr>
<th>Freshwater</th>
<th>Marine water</th>
<th>Intermittent releases</th>
<th>STP</th>
<th>Sediment (freshwater)</th>
<th>Sediment (marine water)</th>
<th>Soil</th>
<th>Secondary poisoning</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.45 mg/l</td>
<td>0.045 mg/l</td>
<td>4.5 mg/l</td>
<td>18 mg/l not available</td>
<td>not available</td>
<td>not available</td>
<td>No potential</td>
<td></td>
</tr>
</tbody>
</table>

Ethyleneglycol dinitrate CAS 628-96-6

<table>
<thead>
<tr>
<th>DNEL</th>
<th>Users</th>
<th>Route of study</th>
<th>Effects</th>
<th>Time of exposure</th>
<th>Hodnota</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workers</td>
<td>Inhalation</td>
<td>Systemic effects</td>
<td>Long-term</td>
<td>0.085 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Workers</td>
<td>Dermal</td>
<td>Systemic effects</td>
<td>Long-term</td>
<td>0.06 mg/kg/day</td>
<td></td>
</tr>
<tr>
<td>General population</td>
<td>Inhalation</td>
<td>Systemic effects</td>
<td>Long-term</td>
<td>0.043 mg/m³</td>
<td></td>
</tr>
<tr>
<td>General population</td>
<td>Oral</td>
<td>Systemic effects</td>
<td>Long-term</td>
<td>0.015 mg/kg/day</td>
<td></td>
</tr>
<tr>
<td>General population</td>
<td>Oral</td>
<td>Systemic effects</td>
<td>Acute/short term</td>
<td>0.015 mg/kg/day</td>
<td></td>
</tr>
</tbody>
</table>

PNEC

<table>
<thead>
<tr>
<th>Freshwater</th>
<th>Marine water</th>
<th>Intermittent releases</th>
<th>STP</th>
<th>Sediment (freshwater)</th>
<th>Sediment (marine water)</th>
<th>Soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.003 mg/l</td>
<td>0.0003 mg/l</td>
<td>0.019 mg/l</td>
<td>1.3 mg/l 0.004 mg/kg</td>
<td>0.0004 mg/kg</td>
<td>0.0025 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Glycerol trinitrate CAS 55-63-0

<table>
<thead>
<tr>
<th>DNEL</th>
<th>Users</th>
<th>Route of study</th>
<th>Effects</th>
<th>Time of exposure</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workers</td>
<td>Dermal</td>
<td>Systemic effects</td>
<td>Long-term</td>
<td>0.5 mg/kg/day</td>
<td></td>
</tr>
<tr>
<td>Workers</td>
<td>Dermal</td>
<td>Systemic effects</td>
<td>Acute/short term</td>
<td>2.5 mg/kg/day</td>
<td></td>
</tr>
<tr>
<td>General population</td>
<td>Oral</td>
<td>Systemic effects</td>
<td>Long-term</td>
<td>0.5 mg/kg/day</td>
<td></td>
</tr>
</tbody>
</table>

PNEC

<table>
<thead>
<tr>
<th>Freshwater</th>
<th>Marine water</th>
<th>Intermittent releases</th>
<th>STP</th>
<th>Sediment (freshwater)</th>
<th>Sediment (marine water)</th>
<th>Soil</th>
<th>Secondary poisoning</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0198 mg/l</td>
<td>not available</td>
<td>0.0198 mg/l</td>
<td>not available</td>
<td>not available</td>
<td>not available</td>
<td>No potential</td>
<td></td>
</tr>
</tbody>
</table>
8.2 Exposure controls

8.2.1 Appropriate engineering controls
Process enclosures, local exhaust, general ventilation.

8.2.2 Personal protective equipment
Protective clothing shall be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. All used personal protective equipment should conform Regulation 89/686/EEC.

Eye and face protection - chemical goggles;
Skin protection - protective gloves depending on operation conforming EN 374, protective clothing, boots, cap;
Respiratory protection – in case of fumes discharge use respiratory protection mask with filter A2 conforming EN 133.

8.2.3 Environmental exposure controls
Avoid release to the environment. If it is impossible, substance should be removed safely from the place of leakage. In case of leakage of substance to air or water sources, soil or sewer system, inform relevant authorities about leakage.

### 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>plastic material of green colour</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic odour of nitroesters</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>not available</td>
</tr>
<tr>
<td>pH</td>
<td>not available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>not available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flammability</td>
<td>not applicable - explosive</td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>not applicable</td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>not applicable</td>
</tr>
<tr>
<td>Vapour density</td>
<td>not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>not available</td>
</tr>
<tr>
<td>Solubility</td>
<td>partly soluble in water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>n-octanol/water: not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>not applicable - explosive</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Expl. 1.1</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>not applicable – explosive</td>
</tr>
</tbody>
</table>

9.2 Other information
Flash point: > 300 °C.
Bulk density: 1.05 g/cm³.
Impact sensitivity: min. 4 J.
Lower sensitivity to friction, electric spark, high detonation initiation sensitivity.
Soluble in acetone, ethylacetate, partly soluble in benzene and toluene.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
Explosive.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
Unknown.

10.4 Conditions to avoid
High temperature, strong impact, friction, direct sun light.

10.5 Incompatible materials
Strong acids and alkalis.

10.6 Hazardous decomposition products
Oxides of nitrogen and carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity:
Glycerol trinitrate LD₅₀: 685 mg.kg⁻¹, rat, oral
Glycerol trinitrate LD₅₀: >9 mg.kg⁻¹, rat, dermal
Ethylene glycol dinitrate LD₅₀: 616 mg.kg⁻¹, rat, oral
Ammonium chloride LD₅₀: 1410 mg.kg⁻¹, rat, oral
Sodium nitrate LD₅₀: 3236 mg.kg⁻¹, rat, oral
Nitrocelullose LD₅₀: >5000 mg.kg⁻¹, rat, oral
Glycerol trinitrate LD₅₀: 685 mg.kg⁻¹, rat, oral
Glycerol trinitrate LD₅₀: 10 mg.kg⁻¹, rat, dermal

Skin corrosion/irritation:
Acute: not containing these substances (or less than classification limit)

Serious eye damage/irritation:
Causes serious eye irritation. Eye Irrit. 2; H319

Respiratory or skin sensitisation:
not containing these substances (or less than classification limit)

Germ cell mutagenicity:
not containing these substances (or less than classification limit)

Carcinogenicity:
not containing these substances (or less than classification limit)

Reproductive toxicity:
not containing these substances (or less than classification limit)

STOT-single exposure:
May cause damage to organs through prolonged or repeated exposure.
STOT RE 2; H373

Aspiration hazard:
not containing these substances (or less than classification limit)

11.2 Likely routes of exposure
Through inhalation, skin exposure and ingestion.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
Harmful to aquatic life with long lasting effects.
Glycerol trinitrate LC₅₀ for fish: 3.48 mg.l⁻¹
Glycerol trinitrate LC₅₀ for invertebrates: 17,83 mg.l⁻¹ (48 h)
Glycerol trinitrate EC₅₀ for algae: 1,15 mg.l⁻¹ (96 h)
Ethylene glycol dinitrate LC₅₀ for fish: 1.9 mg.l⁻¹
Sodium nitrate LC₅₀ for fish: 6000 mg.l⁻¹
Ammonium chloride LC₅₀ for fish: 42.91 mg.l⁻¹
12.2 Persistence and degradability
Not established.

12.3 Bioaccumulative potential
Not established.

12.4. Mobility in soil
Solubility of ethyleneglycol dinitrate and glycerol trinitrate in water is relatively low (5 – 6.8 g/l respectively 1.4 g/l). Nitrocellulose is practically insoluble in water.

12.5 Results of PBT and vPvB assessment
Assessment was not carried out.

12.6 Other adverse effects
Lack of data.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Substance/mixture: Sweep up spilled material carefully and place in impermeable packages. Flush spill area with plenty of water. Dispose by explosion only in the place approved for disposal of explosives in accordance with national regulations relating to explosives.

Packaging: Packaging without the rest of product must be incinerated only in a hazardous waste incinerator facility under observation of official regulations.

Waste codes / waste designations according to EWC:
16 04 03 N Other waste explosives

SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>14.1 UN number:</th>
<th>0081</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN proper shipping name:</td>
<td>EXPLOSIVE, BLASTING, TYPE A</td>
</tr>
<tr>
<td>14.3 Transport hazard class:</td>
<td>1</td>
</tr>
<tr>
<td>14.4 Packing group:</td>
<td></td>
</tr>
<tr>
<td>14.5 Environmental hazards:</td>
<td>no</td>
</tr>
<tr>
<td>14.6 Special precautions for user:</td>
<td>no</td>
</tr>
<tr>
<td>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</td>
<td>not applicable</td>
</tr>
<tr>
<td>14.8 Other applicable information:</td>
<td></td>
</tr>
<tr>
<td>- for ADR/RID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Classification code: 1.1D</td>
</tr>
<tr>
<td></td>
<td>Label: 1</td>
</tr>
<tr>
<td>- for IMDG</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EmS F-B, S-Y</td>
</tr>
<tr>
<td>- for IATA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Air transport is forbidden</td>
</tr>
</tbody>
</table>

SECTION 15: REGULATORY INFORMATION

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

EU Regulations:
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), in the wording of later regulations
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), in the wording of later regulations
Dangerous Substances Directive 67/548/EHS
Dangerous Preparations Directive 1999/45/ES
European Waste Catalogue (EWC)

15.2 Chemical safety assessment
Assessment was not carried out.

SECTION 16: OTHER INFORMATION

Changes to the previous version:
Version 5.0 – Product classified in accordance with Regulation no. 1272/2008/EC.
Version 5.1 – 7.3 Specific end use(s)

Abbreviations:
CAS Chemical Abstracts Service
EN European standard
EWC The European Waste Catalogue
PEL Permissible Exposure Limit, long-term limit (8 hours)
NPK-P Maximum allowable concentrations of chemicals in the workplace atmosphere, short-term limit
CLP Regulation No. 1272/2008/EC
REACH Regulation No. 1907/2006/EC
PBT Persistent, bioaccumulative and toxic
vPvB very persistent and very bioaccumulative
ADR The European Agreement concerning the International Carriage of Dangerous Goods by Road
RID Regulations concerning the International Transport of Dangerous Goods by Rail
IMDG The International Maritime Dangerous Goods
IATA The International Air Transport Association

Full text of data used for classification:
Acute Tox. 1 Acute toxicity, Category 1
Acute Tox. 2 Acute toxicity, Category 2
Acute Tox. 3 Acute toxicity, Category 3
Acute Tox. 4 Acute toxicity, Category 4
Aquatic Chronic 2 Hazardous to the aquatic environment chronic, Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment chronic, Category 3
Expl. 1.1 Explosive, Division 1.1
Eye Irrit. 2 Serious eye damage/eye irritation, Category 2
Ox. Sol. 3 Oxidising solid, Category 3
STOT RE 2 Specific target organ toxicity — repeated exposure, Category 2
Unst. Expl. Unstable Explosive

H200 Unstable explosives.
H201 Explosive; mass explosion hazard.
H272 May intensify fire; oxidiser.
H300 Fatal if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H373 May cause damage to organs.
H300 + H330 Fatal if swallowed or if inhaled
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

E Explosive
N Dangerous for the environment
O Oxidising.
T+ Very toxic
Xn Harmful
Xi Irritating
R2  Risk of explosion by shock, friction, fire or other sources of ignition
R3  Extreme risk of explosion by shock, friction, fire or other sources of ignition
R8  Contact with combustible material may cause fire
R22 Harmful if swallowed
R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed
R33 Danger of cumulative effects
R36 Irritating to eyes
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Key literature references and sources for data
legislation, chemical databases and tables

Relevant data for classification
The mixture is classified on the basis of the conventional calculation method.

Instructions for training
For handling with the product Safety Regulations shall be elaborated, negotiated with Regional Hygienist. These Regulations shall be available in the workplace. Training by competent person only.

The information provided in this Safety Data Sheet is based on the present state of our knowledge and experience and are intended to describe our product with respect to possible safety demands. The information is not to be considered a warranty of quality specification. Recipients of our product must take responsibility for observing existing laws and regulations.