SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

KPS-5

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

1.1 Product identifier
Trade name : KPS-5
REACH Registration Number : 01-2119495676-19-0000
Substance name : Potassium Persulfate
Index-No. : 016-061-00-1
EC-No. : 231-781-8

1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of the Substance/Mixture : Oxidizing agents, polymerisation initiators

1.3 Details of the supplier of the safety data sheet
Company : United Initiators GmbH
Dr.-Gustav-Adolph-Str. 3
82049 Pullach
E-mail address of person responsible for the SDS : contact@united-in.com

1.4 Emergency telephone number
+49 / 89 / 74422 – 0 (24 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)
Oxidizing solids, Category 3
Acute toxicity, Category 4
Skin irritation, Category 2
Eye irritation, Category 2
Respiratory sensitisation, Category 1
Skin sensitisation, Category 1
Specific target organ toxicity - single exposure, Category 3, Respiratory system

H272: May intensify fire; oxidizer.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:

- Danger

Signal word:

- H272 May intensify fire; oxidizer.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.

Precautionary statements:

**Prevention:**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P220 Keep/Store away from clothing/ combustible materials.
- P232 Protect from moisture.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

- P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
- P337 + P313 If eye irritation persists: Get medical advice/ attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.

**Disposal:**

- P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name: Potassium Persulfate
Index-No.: 016-061-00-1
EC-No.: 231-781-8
Chemical nature: Persulphate
Solid

Hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipotassium peroxodisulphate</td>
<td>7727-21-1</td>
<td>231-781-8</td>
<td>&gt;= 99 - &lt;= 100</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. Call a physician immediately.

Protection of first-aiders: First Aid responders should pay attention to self-protection and use the recommended protective clothing

If inhaled: Call a physician or poison control centre immediately. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathed in, move person into fresh air.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. If on skin, rinse well with water. If on clothes, remove clothes. If symptoms persist, call a physician.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed:
- Keep respiratory tract clear.
- Call a physician immediately.
- Rinse mouth thoroughly with water.

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

**Risks**
- Harmful if swallowed.
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause respiratory irritation.

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

**Treatment**
- Treat symptomatically and supportively.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**
- Water spray
- Foam

**Unsuitable extinguishing media**
- High volume water jet

### 5.2 Special hazards arising from the substance or mixture

**Specific hazards during firefighting**
- Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may auto-ignite.
- Cool closed containers exposed to fire with water spray.

### 5.3 Advice for firefighters

**Special protective equipment for firefighters**
- Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

**Specific extinguishing methods**
- Do not use a solid water stream as it may scatter and spread fire.
- Remove undamaged containers from fire area if it is safe to do so.
- Use water spray to cool unopened containers.
- Suppress (knock down) gases/vapours/mists with a water spray jet.

**Further information**
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation.
Remove all sources of ignition.
Follow safe handling advice and personal protective equipment recommendations.

Never return spills in original containers for re-use.
Treat recovered material as described in the section “Disposal considerations”.

6.2 Environmental precautions

Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Contact with incompatible substances can cause decomposition at or below SADT.
Clear spills immediately.
Suppress (knock down) gases/vapours/mists with a water spray jet.
To clean the floor and all objects contaminated by this material, use plenty of water.
Soak up with inert absorbent material.
Isolate waste and do not reuse.
Non-sparking tools should be used.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Advice on safe handling: Do not swallow.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
Take precautionary measures against static discharges.
Never return any product to the container from which it was originally removed.
Provide sufficient air exchange and/or exhaust in work rooms.
Avoid confinement.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Smoking, eating and drinking should be prohibited in the application area.
Wash thoroughly after handling.
For personal protection see section 8.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Protect from contamination.
Protect from moisture.

Advice on protection against fire and explosion:
Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from combustible material.

Hygiene measures:
Keep away from food and drink. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers:
Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep in a dry place. Store in accordance with the particular national regulations.

Advice on common storage:
Keep away from strong acids, bases, heavy metal salts and other reducing substances.

Recommended storage temperature:
< 30 °C

Other data:
No decomposition if stored normally.

7.3 Specific end use(s)
Specific use(s):
For further information, refer to the product technical data sheet.
## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
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<tr>
<td>Dipotassium peroxodisulphate</td>
<td>dipotassium peroxodisulphate</td>
<td>OELV - 8 hrs (TWA)</td>
<td>0.1 mg/m³ (S2O8)</td>
<td>IE OEL</td>
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</table>

**Further information**

Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis, Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit value should be used

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>End Use</th>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>Value</th>
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<tr>
<td>dipotassium peroxodisulphate</td>
<td>Workers</td>
<td>Inhalation</td>
<td>Long-term systemic effects</td>
<td>2.06 mg/m³</td>
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<tr>
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<td>Workers</td>
<td>Inhalation</td>
<td>Acute systemic effects</td>
<td>590 mg/m³</td>
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<td>Workers</td>
<td>Inhalation</td>
<td>Long-term local effects</td>
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<td>Skin contact</td>
<td>Long-term systemic effects</td>
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<td>Acute systemic effects</td>
<td>400 mg/kg bw/day</td>
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<td>Workers</td>
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<td>Long-term local effects</td>
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<tr>
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<td>Consumers</td>
<td>Inhalation</td>
<td>Acute systemic effects</td>
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<tr>
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<td>1.03 mg/m³</td>
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<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>Acute local effects</td>
<td>295 mg/m³</td>
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<tr>
<td></td>
<td>Consumers</td>
<td>Skin contact</td>
<td>Long-term systemic effects</td>
<td>9.1 mg/kg bw/day</td>
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<td>Consumers</td>
<td>Ingestion</td>
<td>Long-term systemic effects</td>
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<tr>
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<td>Consumers</td>
<td>Ingestion</td>
<td>Acute systemic effects</td>
<td>30 mg/kg bw/day</td>
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</table>

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Environmental Compartment</th>
<th>Value</th>
</tr>
</thead>
</table>

7 / 18
8.2 Exposure controls

**Engineering measures**
Minimize workplace exposure concentrations.

**Personal protective equipment**

Eye protection: Tightly fitting safety goggles
Please wear suitable protective goggles. Also wear face protection if there is a splash hazard.
Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection
- Material: butyl-rubber
- Break through time: >= 480 min
- Glove thickness: 0.5 mm

Remarks: Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.

Respiratory protection: In the case of dust or aerosol formation use respirator with an approved filter.

Filter type: Filter type P

### SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

- **Appearance**: solid
- **Colour**: white
- **Odour**: not significant
- **Odour Threshold**: No data available

<table>
<thead>
<tr>
<th>Substance</th>
<th>Fresh water</th>
<th>Marine water</th>
<th>Intermittent use/release</th>
<th>Sewage treatment plant</th>
<th>Fresh water sediment</th>
<th>Marine sediment</th>
<th>Soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>dipotassium peroxodisulphate</td>
<td>0.0763 mg/l</td>
<td>0.011 mg/l</td>
<td>0.763 mg/l</td>
<td>3.6 mg/l</td>
<td>0.275 mg/kg</td>
<td>0.0396 mg/kg</td>
<td>0.015 mg/kg</td>
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</table>
**SAFETY DATA SHEET**
according to Regulation (EC) No. 1907/2006

**KPS-5**

<table>
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<tr>
<th>Version</th>
<th>Revision Date:</th>
<th>SDS Number:</th>
<th>Print Date:</th>
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<td>1.3</td>
<td>28.07.2017</td>
<td>600000000020</td>
<td>23.01.2018</td>
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</tbody>
</table>

- **pH**: 4  
  Concentration: ca. 10 g/l

- **Melting point/freezing point**: Decomposes below the melting point.

- **Initial boiling point and boiling range**: Not applicable

- **Flash point**: Not applicable

- **Evaporation rate**: Not applicable

- **Flammability (solid, gas)**: Not expected to form explosive dust-air mixtures.

- **Upper explosion limit**: No data available

- **Lower explosion limit**: No data available

- **Vapour pressure**: No data available

- **Relative vapour density**: Not applicable

- **Bulk density**: 1,100 kg/m³

- **Solubility(ies)**
  - Water solubility: 60 g/l (25 °C) soluble
  - Partition coefficient: n-octanol/water: Not applicable

- **Viscosity**
  - Viscosity, dynamic: Not applicable
  - Viscosity, kinematic: Not applicable

- **Explosive properties**: Not explosive

- **Oxidizing properties**: The substance or mixture is classified as oxidizing with the category 3.

**9.2 Other information**

- **Self-Accelerating decomposition temperature (SADT)**: 170 °C  
  Method: UN-Test H.4  
  SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

Stable under recommended storage conditions.
10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions: Avoid moisture.
Even small amounts of moisture or impurities can noticeably reduce the self-accelerating decomposition temperature (SADT).

10.4 Conditions to avoid
Conditions to avoid: Contact with incompatible substances can cause decomposition at or below SADT.
Even small amounts of moisture or impurities can noticeably reduce the self-accelerating decomposition temperature (SADT).

10.5 Incompatible materials
Materials to avoid: Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents

10.6 Hazardous decomposition products
Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Harmful if swallowed.

Product:
Acute oral toxicity: LD50 (Rat): 1,130 mg/kg

Components:

Dipotassium peroxodisulphate:
Acute oral toxicity: LD50 (Rat, male): 742 mg/kg
Method: OECD Test Guideline 401
Assessment: The component/mixture is moderately toxic after single ingestion.
Remarks: Based on test data

Acute inhalation toxicity: LC50 (Rat): > 5.1 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Expert judgement
Acute dermal toxicity: LD50 (Rat): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Expert judgement

Skin corrosion/irritation  
Causes skin irritation.

**Product:**  
Remarks: May cause skin irritation and/or dermatitis.

**Components:**  
**Dipotassium peroxodisulphate:**  
Result: Skin irritation

Serious eye damage/eye irritation  
Causes serious eye irritation.

**Product:**  
Remarks: May cause irreversible eye damage.

**Components:**  
**Dipotassium peroxodisulphate:**  
Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Eye irritation

Respiratory or skin sensitisation  
Skin sensitisation  
May cause an allergic skin reaction.

Respiratory sensitisation  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Product:**  
Remarks: Causes sensitisation.  
Assessment: May cause sensitisation by skin contact.  
Assessment: Probability of respiratory sensitisation in humans based on animal testing

**Components:**  
**Dipotassium peroxodisulphate:**  
Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: May cause sensitisation by skin contact.
Exposure routes: inhalation (dust/mist/fume)
Result: May cause sensitisation by inhalation.

**Germ cell mutagenicity**
Not classified based on available information.

**Components:**

**Dipotassium peroxodisulphate:**
Genotoxicity in vitro:
- Test Type: Bacterial reverse mutation assay (AMES)
  - Result: negative
  - Remarks: Based on data from similar materials

Genotoxicity in vivo:
- Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
  - Species: Mouse
  - Application Route: Intraperitoneal injection
  - Result: negative
  - Remarks: Based on data from similar materials

**Carcinogenicity**
Not classified based on available information.

**Components:**

**Dipotassium peroxodisulphate:**
Species: Mouse
Application Route: Skin contact
Exposure time: 52 weeks
Method: OECD Test Guideline 451
Result: negative
Remarks: Based on data from similar materials

**Reproductive toxicity**
Not classified based on available information.

**Components:**

**Dipotassium peroxodisulphate:**
Effects on fertility:
- Species: Rat
  - Application Route: Ingestion
  - Method: OECD Test Guideline 421
  - Result: negative
  - Remarks: Based on data from similar materials

Effects on foetal development:
- Species: Rat
  - Application Route: Ingestion
  - Method: OECD Test Guideline 421
  - Result: negative
  - Remarks: Based on data from similar materials
STOT - single exposure
May cause respiratory irritation.

**Product:**
Assessment: May cause respiratory irritation.

**Components:**
Dipotassium peroxodisulphate:
Assessment: May cause respiratory irritation.

STOT - repeated exposure
Not classified based on available information.

Repeated dose toxicity

**Components:**
Dipotassium peroxodisulphate:
Species: Rat
NOAEL: 1,000 mg/kg
LOAEL: 3,000 mg/kg
Application Route: Ingestion
Exposure time: 90 d
Method: OECD Test Guideline 408

Aspiration toxicity
Not classified based on available information.

Further information

**Product:**
Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

**Components:**
Dipotassium peroxodisulphate:

Toxicity to fish:
LC50 (Scophthalmus maximus (turbot)): 107.6 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): 120 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae:
EC50 (Phaeodactylum): 320 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOEC (Phaeodactylum): 32 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10 (Pseudomonas putida): 36 mg/l  
Exposure time: 18 h  
Remarks: Based on data from similar materials

12.2 Persistence and degradability  
No data available

12.3 Bioaccumulative potential

Components:

Dipotassium peroxodisulphate:  
Partition coefficient: n-octanol/water : Remarks: Not applicable

12.4 Mobility in soil  
No data available

12.5 Results of PBT and vPvB assessment

Product:  
Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

Product:  
Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.
Do not re-use empty containers. 
Do not burn, or use a cutting torch on, the empty drum. 
Dispose of in accordance with local regulations.

### SECTION 14: Transport information

#### 14.1 UN number

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<th>ADN</th>
<th>UN 1492</th>
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<tbody>
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<td>IMDG</td>
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<td>IATA</td>
<td>UN 1492</td>
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</table>

#### 14.2 UN proper shipping name

<table>
<thead>
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<th>ADN</th>
<th>POTASSIUM PERSULPHATE</th>
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<tbody>
<tr>
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<td>IMDG</td>
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<td>Potassium persulphate</td>
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#### 14.3 Transport hazard class(es)

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#### 14.4 Packing group

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<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing group</td>
</tr>
<tr>
<td>Classification Code</td>
</tr>
<tr>
<td>Hazard Identification Number</td>
</tr>
<tr>
<td>Labels</td>
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</tbody>
</table>
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

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IMDG
Packing group : III
Labels : 5.1
EmS Code : F-A, S-Q

IATA (Cargo)
Packing instruction (cargo aircraft) : 563
Packing instruction (LQ) : Y546
Packing group : III
Labels : Oxidizer

IATA (Passenger)
Packing instruction (passenger aircraft) : 559
Packing instruction (LQ) : Y546
Packing group : III
Labels : Oxidizer

14.5 Environmental hazards

ADN
Environmentally hazardous : no

ADR
Environmentally hazardous : no

RID
Environmentally hazardous : no

IMDG
Marine pollutant : no

14.6 Special precautions for user
Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable


P8 OXIDIZING LIQUIDS AND 50 t 200 t
SAFETY DATA SHEET
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SOLIDS

Other regulations: Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

AICS (AU): On the inventory, or in compliance with the inventory
NZIoC (NZ): On the inventory, or in compliance with the inventory
ENCS (JP): On the inventory, or in compliance with the inventory
ISHL (JP): On the inventory, or in compliance with the inventory
KECI (KR): On the inventory, or in compliance with the inventory
PICCS (PH): On the inventory, or in compliance with the inventory
IECSC (CN): On the inventory, or in compliance with the inventory
TCSI (TW): On the inventory, or in compliance with the inventory
TSCA (US): On TSCA Inventory

15.2 Chemical safety assessment
A Chemical Safety Assessment has been carried out for this substance.
For further information see eSDS.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not
Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic Substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guideline for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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