

TEHOPESU



Date 5.9.2011

Previous date: 24.6.2008

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
- 1.1.1 Commercial Product Name**
TEHOPESU
- 1.1.2 Product code**
006 1907
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
- 1.2.1 Recommended use**
Painting work.
Description: Granules for cleaning of various interior and exterior surfaces.
- 1.3 Details of the supplier of the safety data sheet**
- 1.3.1 Supplier**
Tikkurila Oyj
- P.O.Box** P.O.Box 53
Postcode and post office FI-01301 VANTAA
FINLAND
- Telephone** +358 9 857 71
Telefax +358 9 8577 6936
- 1.3.4 Responsible for the Safety Data Sheet:**
Tikkurila Oyj, Product Safety, e-mail: productsafety@tikkurila.com
- 1.4 Emergency telephone number**
- 1.4.1 Telephone number, name and address**
Tikkurila Oyj, Environment and Safety: +358 9 857 71

2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
67/548/EEC - 1999/45/EC
O, Xn; R8-22-41
- 2.2 Label elements**
67/548/EEC - 1999/45/EC
- | | | | |
|----|-----------|---|---|
| O | Oxidising |  |  |
| Xn | Harmful | | |
- R-phrases(s)**
- R8 Contact with combustible material may cause fire.
R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.
- S-phrases(s)**
- S2 Keep out of the reach of children.
S8 Keep container dry.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.
- Contains:**
Sodium carbonate peroxy hydrate
- Special regulations on certain preparations**
Contains < 5 % anionic surfactants and > 30 % oxygen-based bleaching agents.
- 2.3 Other hazards**
Other hazards are not known.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2	Mixtures				
	Hazardous components				
	CAS number	EINECS	Chemical name of the substance	Concentration	Classification
	15630-89-4	239-707-6	Sodium carbonate peroxy hydrate	> 75 %	O, Xn; R8-22-41
	68411-30-3	270-115-0	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	< 1 %	Xn; R22-38-41
3.3	Other information				
	See Section 16 for full text of R-phrases and H-statements.				

4. FIRST AID MEASURES

- 4.1 Description of first aid measures**
In all cases of doubt, or when symptoms persist, seek medical attention.
- 4.1.2 Inhalation**
Remove to fresh air, keep patient warm and at rest. Seek medical advice, if symptoms appear. Rinse the mouth and the nose with water, if possible.
- 4.1.3 Skin contact**
Remove contaminated clothing. Wash skin thoroughly with plenty of water. Seek medical advice, if skin irritation persists.
Contaminated clothing must be washed with plenty of water before it is used again, to avoid the risk of fire.
- 4.1.4 Eye contact**
Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.
- 4.1.5 Ingestion**
Rinse the mouth with water. Drink plenty of water. DO NOT induce vomiting. Obtain immediate medical attention.
- 4.2 Most important symptoms and effects, both acute and delayed**
Harmful if swallowed. Risk of serious damage to eyes.
- 4.3 Indication of immediate medical attention and special treatment needed**
None.

5. FIREFIGHTING MEASURES

- 5.1 Extinguishing media**
- 5.1.1 Suitable extinguishing media**
The product is non-combustible. Use powder extinguisher. The containers can be cooled with water in case of fire.
- 5.1.2 Extinguishing media which must not be used for safety reasons**
Do not spray the product direct with water because contact with water will release oxygen.
- 5.2 Special hazards arising from the substance or mixture**
The product itself does not burn but it may cause a fire when in contact with flammable materials. The product can maintain burning while releasing oxygen. Can generate pressure while decomposing, especially in closed spaces.
Fire will produce gases and/or fumes, which contains decomposition products. Avoid breathing the smoke.
Dusts at sufficient concentrations can form explosive mixtures with air.
- 5.3 Advice for firefighters**
Cool closed containers exposed to fire with water.

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6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Avoid contact with skin, eyes and clothes. Avoid dust formation and breathing it. Prevent the product from spreading into the environment.
- 6.2 Environmental precautions**
Do not allow to enter drains or water courses.
- 6.3 Methods and materials for containment and cleaning up**
Collect the product in dry metal containers avoiding dust formation. Weak dilutions can be poured into drain rinsing with plenty of water. Never put spilled product back into the original container for reuse.
- 6.4 Reference to other sections**
See also Section 13 for waste disposal instructions.

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Avoid skin contact and breathing the dust. During processing, dust may form explosive mixture in air. Avoid formation of dust and aerosols. Provide for appropriate exhaust ventilation and dust collection at machinery. Never pour unused product back into the original container for reuse. Keep away from sources of ignition - No smoking. All tools should be washed with plenty of water after use.
- 7.2 Conditions for safe storage, including any incompatibilities**
Keep containers tightly closed. Store in a cool, dry, well ventilated place away from sources of heat and sunlight. Storage temperature under 30 °C and air relative humidity under 70 %. Store in the original container. Suitable materials are for example stainless steel, glass and passivated aluminium.
Keep away from water, acids, bases, heavy metal salts, deoxidizing agents, flammable matters and organic materials.
- 7.3 Specific end use(s)**
None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
The product does not contain reportable concentrations of substances with the exposure limit values (Occupational Exposure Limit Values according to EU Directives and Threshold Limit Values according to ACGIH 2009).
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls**
Provide adequate ventilation. Comply with the health and safety at work laws. Wash hands before breaks and at end of work.
- 8.2.2 Individual protection measures**
- 8.2.2.1 Respiratory protection**
Use appropriate certified respirators, with dust filter P2, if ventilation is insufficient.
- 8.2.2.2 Hand protection**
Always wear approved protective gloves (e.g. nitrile rubber, neoprene or PVC) against chemicals. Barrier creams may also help to protect the exposed areas of the skin. Do not use leather or cotton gloves.
- 8.2.2.3 Eye/face protection**
Wear eye/face protection.
- 8.2.2.4 Skin protection**
Personnel should wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Important Health Safety and Environmental Information**

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9.1.1	Appearance	
	White granules	
9.1.4	pH	10,4 - 10,6 (1 % solution)
9.1.6	Initial boiling point and boiling range	-
9.1.7	Flash point	-
9.1.10	Explosive properties	
9.1.10.1	Lower explosion limit	-
9.1.10.2	Upper explosion limit	-
9.1.13	Relative density	1,0
9.1.14	Solubility(ies)	
9.1.14.1	Water solubility	150 g/l (20 °C)
9.1.20	Oxidising properties	oxidizing
9.2	Other information	
	Decomposing temperature > 60 °C, dry material > 150 °C. The decomposing temperature depends on the moisture and dirt content. Self-accelerating decomposing with oxygen release.	

10. STABILITY AND REACTIVITY

10.1	Reactivity	See section 10.5.
10.2	Chemical stability	Stable under recommended storage and handling conditions (see section 7).
10.3	Possibility of hazardous reactions	See section 10.5.
10.4	Conditions to avoid	High temperatures, moisture.
10.5	Incompatible materials	Keep away from water, acids, bases, heavy metal salts, deoxidizing agents, flammable matters and organic materials.
10.6	Hazardous decomposition products	Oxygen, water vapour, heat.

11. TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	There are no toxicological test data available on the product itself.
11.1.1	Acute toxicity	Sodium carbonate peroxy hydrate: LD50 (oral, rat) = 1034 mg/kg Sodium carbonate peroxy hydrate: LD50 (dermal, rabbit) > 2000 mg/kg Sodium carbonate peroxy hydrate: LC50 (inhal, rat) = 4580 mg / m ³ / 1h
11.1.2	Irritation and corrosion	Risk of serious damage to eyes.
11.1.8	Other information on acute toxicity	Inhalation: Breathing the powder may cause irritation of the respiratory system. Skin contact: Product irritates eyes, skin and mucous membrane. Repeated or prolonged contact with the product may be corrosive. Ingestion: Ingestion may cause gastrointestinal tract burns.

12. ECOLOGICAL INFORMATION

12.1	Toxicity
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- 12.1.1 Aquatic toxicity**
Sodium carbonate peroxy hydrate: LC50 (96h, fish: fathead minnows) = 70,7 mg/l, EC50(48h, daphnia) = 4,9 mg/l. Toxic to aquatic organisms. Danger to the environment is limited as a result of absence of bioaccumulation and its degradability.
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: LC50(96h, fish: Cyprinus carpio) = 1-10 mg/l, EC50 (48h, Daphnia magna) = 1-10 mg/l, LC50(72h, algae) = 10-100 mg/l.
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: > 70 %, 28 d, OECD 301 A; > 60 %, 29 d, OECD 301 B; > 90 %, 35 d, OECD 303 A. Readily biodegradable.
- 12.2.2 Chemical degradation**
Sodium carbonate peroxy hydrate: Decompose chemically. Decomposition product are natrium carbonate/ carbon dioxide / bicarbonate / carbonate / water / oxygen.
- 12.3 Bioaccumulative potential**
Sodium carbonate peroxy hydrate does not bioaccumulate.
- 12.4 Mobility in soil**
Sodium carbonate peroxy hydrate: water solubility: 140g/l (20 °C). Will not adsorb soil.
- 12.5 Results of PBT and vPvB assessment**
Sodium carbonate peroxy hydrate is not considered to be persistent, bioaccumulating nor toxic (PBT).
- 12.6 Other adverse effects**
There is no ecotoxicological test data available on the product itself.

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
13.1 Product residues:
Product residue is collected and disposed of in accordance with a waste management plan approved by the relevant authorities. Large amounts of undiluted product shall be delivered to hazardous waste collection point or to another waste management facility where it can be treated as hazardous waste. Small amounts can be destroyed by allowing the crystals dissolve completely in water; the weak solution can then be rinsed into drain.
Packaging waste:
Empty cans should be recycled or disposed of in accordance with local regulations.

14. TRANSPORT INFORMATION

- | | |
|--|--|
| 14.1 UN number | 3378 |
| 14.2 UN proper shipping name | sodium carbonate peroxyhydrate |
| 14.3 Transport hazard class(es) | 5.1 |
| 14.4 Packing group | III |
| 14.5 Environmental hazards | The product is not classified as environmentally hazardous according to international transport regulations. |
| 14.6 Special precautions for users | None known. |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | None known. |

15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents.

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- 15.2 Chemical safety assessment**
Has not been performed.

16. OTHER INFORMATION**16.5 Full text of R-phrases and/or Hazard statements (H-statements) referred to under sections 2 and 3**

R8 Contact with combustible material may cause fire.
R22 Harmful if swallowed.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.

16.8 Additional information

This Safety Data Sheet is prepared in accordance with Annex II (EU) No 453/2010 to Regulation (EC) No 1907/2006 (REACH).

The information contained in this Safety Data Sheet is based on the present state of knowledge and current EU and national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Additional information available from:

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