

$1 \qquad \frac{\text{IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING}}{\text{UNDERTAKING}}$

Catalogue No : S 17729

Product Name : Sodium perborate tetrahydrate

Nice Chemicals (P) Ltd.,

Manufacutre / Supplier Identification Company : PB No: 2217, Manimala Road,

Edappally, Kochi - 682 024, Kerala, India.

Contact for Information : Tel: 91-484-2800212, 2802755, 2802536, 2801583

Fax: 0484 2802483

Emergany Telphone No : 0484 2801583

TeleFax No : 0484 2802483

2 COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms :

CAS - No :

Molar Mass :

Molecular Weight : 153.86 g/mol

Molecular Formula : BNaO3 . 4H2O

EC - INDEX No :

EC - No :

3 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 : Oxidizing solids (Category 2), H272

Oxidizing solids (Category 2), H272 Acute toxicity, Oral (Category 4), H302 Serious eye damage (Category 1), H318 Reproductive toxicity (Category 1B), H360Df Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Contact with combustible material may cause fire. May cause harm to the unborn child. Possible risk of impaired fertility, Harmful if swallowed. Irritating to respiratory system. Risk of serious damage to eye



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Product Name Sodium perborate tetrahydrate

Label Elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word

Hazard statement(s)

H272 May intensify fire; oxidiser.

Harmful if swallowed. H302

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

May damage the unborn child. Suspected of H360Df

damaging fertility

Precautionary statement(s)

P201 Obtain special instructions before use.

Keep/Store away from clothing/ combustible P220

materials.

P261 : Avoid breathing dust

Wear protective gloves/ eye protection/ face P280

protection.

IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

IF exposed or concerned: Get medical advice/ P308 + P313

attention.

Supplemental Hazard none

Other Hazards none

4 FIRST AID MEASURES

P305 + P351 + P338

Consult a physician. Show this safety data sheet to General advice

the doctor in attendance.

If breathed in, move person into fresh air. If not After Inhalation

breathing, give artificial respiration. Consult a

physician.



Precautions for safe handling

SAFETY DATA SHEET

	Catalogue No Product Name	: :	S 17729 Sodium perborate tetrahydrate
	After skin contat	:	Wash off with soap and plenty of water. Consult a physician.
	After eye contact	:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
	After swallowing	:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician
	Most Important symptoms and effects, both acute and delayed	:	The most important known symptoms and effects are described in the labelling
	Indication of any immediate medical attention and special treatment needed	:	no data available
5	FIRE - FIGHTING MEASURES		
	Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
	Special hazards arising from the substance or mixture	:	No data available
	Advice for firefighters	:	Wear self contained breathing apparatus for fire fighting if necessary.
	Further Information	:	Use water spray to cool unopened containers.
6	ACCIDENTAL RELEASE MEASURES		
	Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
	Environmental-protection	:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
	Methods and materials for containment and cleaning up	:	Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.
7	HANDLING AND STORAGE		
			Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust

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of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition No smoking. Keep away from heat and sources of ignition.



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SAFETY DATA SHEET

Catalogue No S 17729 Sodium perborate tetrahydrate **Product Name** Conditions for safe storage, including any Store in cool place. Keep container tightly closed in incompatibilities a dry and well-ventilated place. : no data available Specific end users **EXPOSURE CONTROLS / PERSONAL PROTECTION** Control parameter Compnents with workplace control parameters **Exposure Controls** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at Appropriate engineering controls the end of workday. Personal protective equipment Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate Eye/face protection government standards such as NIOSH (US) or EN 166(EU). Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact Skin Protection the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. Complete suit protecting against chemicals, The type of protective equipment must be selected according **Body Protection** to the concentration and amount of the dangerous substance at the specific workplace.



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Product Name : Sodium perborate tetrahydrate

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering

Respiratory Protection : controls. If the respirator is the sole means of

protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as

NIOSH (US) or CEN (EU).

Prevent further leakage or spillage if safe to do so.

Control of environmental exposure : Do not let product enter drains. Discharge into the

environment must be avoided.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form : crystalline

Colour: White

Odour : No data available

Odour Threshold : No data available

pH : 10.0 - 10.4 at 10 g/l at 25 °C Melting Point/Freezing point : Melting point/range: 60 °C - dec.

Initial Boiling point and boiling range : No data available

Flash Point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper/lower flammability or explosive limits : No data available

Vapour Pressure : No data available

Vapour Density : No data available

Relative density : No data available

Water solubility : No data available

Partition coefficient: noctanol/water : No data available

Autoignition temperature : No data available

Viscosity : No data available

Explosive properties : No data available

Oxidizing properties

The substance or mixture is classified as oxidizing

in the substance or mixture is classified as oxidizing

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Other Safety information : No data available

10 STABILITY AND REACTIVITY

Reactivity : No data available

Chemical stability : Stable under recommended storage conditions.

Conditions to be avoided : No data available

Substance to be avoided : No data available

Hazardous decomposition products formed under fire conditions. - Borane/boron oxides, Sodium

Hazardous decomposition products

incediations: - Borane/obtion oxides, Southing oxides Other decomposition products - no data

available

Possibility of hazardous reactions : No data available

incompatible materials : Metals, Metallic salts, acids, Bases, Reducing agents

11 TOXICOLOGICAL INFORMATION

Acute Toxicity : LDLO Oral - Infant - 400 mg/kg

LDLO Oral - Child - 250 mg/kg LDLO Oral - Human - 214 mg/kg LD50 Oral - rat - 1.200 mg/kg

Remarks: Behavioral:Convulsions or effect on seizure threshold. Behavioral:Muscle weakness.

LD50 Dermal - rabbit - > 2.000 mg/kg

Further toxicological Information

Carcinogenicity

IARC: No component of this product present at

levels greater than or equal to 0.1% is identified as

probable. Possible or confirmed human carcinogen

by IARC.

Skin corrosion test (rabbit) : No skin irritation

Respiratory or skin Sensitization : No data available

Germ cell mutagenicity : No data available

After Inhalation : No data available

After Skin contact : No data available

After swallowing : No data available

After swallowing of large amounts Page 6 of 9 : No data available



Reproductive toxicity

SAFETY DATA SHEET

Catalogue No : S 17729

Product Name : Sodium perborate tetrahydrate

Further data : No data available

Reproductive toxicity - rat - Oral

Maternal Effects: Other effects. Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

: Effects on Embryo or Fetus: Extra embryonic structures (e.g., placenta, umbilical cord). Presumed human reproductive toxicant May damage the unborn child. Suspected of damaging fertility.

Developmental Toxicity - rat - Oral

Effects on Embryo or Fetus: Fetotoxicity (except

death, e.g., stunted fetus).

Developmental Toxicity - rat - Oral Specific Developmental Abnormalities:

Musculoskeletal system. Specific Developmental Abnormalities: Cardiovascular (circulatory) system.

The substance or mixture is classified as specific target organ toxicant, single exposure, category 3

· with respiratory tract irritation.

Specific target organ toxicity-repeated exposure : No data available

Additional Information : RTECS: SC7350000

12 ECOLOGICAL INFORMATION

Specific target organ toxicity-single exposure

Toxicity

Toxicity to fish LC50 - Danio rerio (zebra fish) -

51 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 - Daphnia magna (Water flea) -

11 mg/l - 48 h

Toxicity to algae

IC50 - Desmodesmus subspicatus (green algae) -

26.8 mg/l - 96 h

Persistance and degradability

Biodegradability

Biodegradability

Biodegradability

Result: 85 % - Readily biodegradable.

Bioaccumulative potential : No data available

Mobility in soil : No data available



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PBT/vPvB assessment not available as chemical Results of PBT and vPvB assessment

safety assessment not required/not conducted.

Other adverse effects : Harmful to aquatic life.

13 DISPOSAL METHOD

Product

Waste treatment methods

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in

igniting as this material is highly flammable. Offer

surplus and non-recyclable solutions to a licensed

disposal company.

Contaminated packaging : Dispose of as unused product.

TRANSPORT INFORMATION 14

> ADR/RID: - 1479 IMDG: -

UN number : 1479

IATA: - 1479

ADR/RID: OXIDIZING SOLID, N.O.S. (Sodium UN Proper shipping name

peroxometaborate tetrahydrate)

IMDG: OXIDIZING SOLID, N.O.S. (Sodium

peroxometaborate tetrahydrate)

IATA: Oxidizing solid, n.o.s. (Sodium

peroxometaborate tetrahydrate)

ADR/RID: - 5.1

Transport hazard class(es) : IMDG: - 5.1

IATA: - 5.1

ADR/RID: - |||

Packaging group : IMDG: - |||

IATA: - |||

IMDGMarine ADR/RID: - no Environmental group

pollutant: no IATA: -no

Special precaution for user No data available

REGULATORY INFORMATION 15

Authorisations and/or restrictions on use

This safety datasheet compiles with the requirements of Regulation (EC) No. 1907/2006

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

Sodium peroxometaborate tetrahydrate Candidate

List of Substances of Very High Concern for

Authorisation Toxic for reproduction (article 57c)

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Catalogue No	: S 17729
Product Name	: Sodium perborate tetrahydrate
Chemical safety assessment	For this product a chemical safety assessment was not carried out

16 OTHER INFORMATION

The information contained here in is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precaution. It does not represent a guarentee of the properties of the product.