



**CAS No.:** 108-31-6 Version: 0 **Product Name:** Maleic anhydried

#### 1. Identification

**Product Code** 91875

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#### 2. Hazards Identification

#### Hazard classification

Acute toxicity, Oral : Category 4 Skin corrosion : Category 1B Respiratory sensitisation : Category 1 Skin sensitisation : Category 1 : Category 1

Specific target organ toxicity repeated exposure, Inhalation

Specific target organ toxicity -

repeated exposure, Oral

Label elements Hazard symbol : Category 2



Signal word

Hazard statement Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Causes damage to organs (Respiratory system) through

prolonged or repeated exposure if inhaled.

May cause damage to organs (Kidney) through prolonged or

repeated exposure if swallowed.

: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Precautionary statement

Wear protective gloves/ protective clothing/ eye protection/

face protection. Wear respiratory protection.

IF ON SKIN (or hair): Take off immediately all contaminated

clothing.





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Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTER or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If experiencing respiratory symptoms: Call a POISON

CENTER or doctor/physician.

Supplemental Hazard

Statements

: None.

# 3. Composition/information on ingredients

Ingredient CAS No
Maleic anhydried 108-31-6

#### 4. First Aid Measures

# Description of first aid measures

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

in attendance.

**Inhalation**: If breathed in, move person into fresh air. If not breathing, give

artificial respiration. Consult a physician.

**Skin contact** : Wash off with soap and plenty of water. Consult a physician.

**Eye contact** : Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

**Swallowed** : Do NOT induce vomiting. 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 Indication of any immediate medical attention and special treatment needed Treatment

: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

: No data available





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#### 5. Fire fighting measures

Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Special hazards arising from the

substance or mixture Advice for firefighters : Carbon oxides

: 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 precautions** 

: 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 Reference to other sections

: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

: For disposal see section 13.

### 7. Handling and Storage

Precautions for safe handling

: Avoid contact with skin and eyes. Avoid formation of dust and

aerosols.

Provide appropriate exhaust ventilation at places where dust is

formed.

Conditions for safe storage, including any incompatibilities

: Store in cool place. Keep container tightly closed in a dry and

well-ventilated place. Moisture sensitive.

Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

**Specific end use(s)** : No data available

# 8. Exposure Controls Personal Protection

Control parameters

Components with workplace control parameters

**Exposure controls** 

**Appropriate engineering** : Handle in accordance with good industrial hygiene and safety





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controls

Personal protective equipment

Eye/face protection

practice. Wash hands before breaks and at the end of workday.

: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as

NIOSH (US) or EN 166(EU).

**Skin Protection Hand** 

protection

: 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.

: Complete suit protecting against chemicals, The type of protective **Body Protection** 

> equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

: Respiratory protection is required. Respiratory protection

## 9. Physical and Chemical Properties

: White powder Appearance Odor : No data available : No data available рH

Melting point/freezing point : 52 - 54 °C Initial boiling point and boiling : 200 °C

range

Flash Point : No data available Vapor pressure : 0.2 hPa at 22 °C Vapor density : No data available Relative density : 1.48 g/cm3 at 20 °C -: No data available Solubility in water **Solubility (other)** : No data available

Formula : C4H2O3 Molecular Weight : 98.06 g/mol

# 10. Stability and Reactivity

Reactivity : No data available

Che mical stability : Stable under recommended storage conditions. : No data available

Possibility of hazardous

reactions

: No data available

**Incompatible materials** : Strong oxidizing agents, Strong acids, Strong bases, Strong reducing

agents, Alkali metals, Amines

Hazardous decomposition

Conditions to avoid

products

: No data available





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#### 11. Toxicological Information

Information on toxicological effects

Acute toxicity : LD50 Oral - Rat - male and female - 1.090 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - 1 h - > 4.35 mg/l LD50 Dermal - Rabbit - female - 2.620 mg/kg

**Skin corrosion/irritation** : Skin - Rabbit

Result: Causes burns. - 4 h

Serious eye damage/eye

irritation

Eyes - Rabbit

Result: Corrosive

**Respiratory or skin sensitization**: Result: May cause sensitisation by inhalation.

Germ cell mutagenicity : Ames test

Salmonella typhimurium

Result: negative

OECD Test Guideline 475 Rat - male and female

Result: negative

**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.

Reproductive toxicity

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

No data availableNo data available

: Inhalation - Causes damage to organs through prolonged or

repeated exposure. - Respiratory system Oral - May cause damage to organs through prolonged or repeated exposure. -

Kidnev

**Aspiration hazard** : No data available

### 12. Ecological Information

**Toxicity** : Toxicity to fish static test LC50 - Oncorhynchus mykiss

(rainbow trout) - 75 mg/l - 96 h

Persistence and degradability : Biodegradability Biotic/Aerobic - Exposure time 28 d

Result: 73 - 81 % - Readily biodegradable

**Bioaccumulative potential** : No data available **Mobility in soil** : No data available

Other adverse effects : Harmful to aquatic life.





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#### 13. Disposal consideration

**Disposal instructions** 

: Discharge, treatment, or disposal may be subject to national,

state, or local laws.

Contaminated packaging

: Offer rinsed packaging material to local recycling facilities.

Since emptied containers retain product residue, follow label

warnings even after container is emptied.

## 14. Transport Information

	UN No.	UN proper shipping name	Hazard	Packaging group	Marine Pollutant
			Class(es)		
DOT	2215	MALEIC ANHYDRIDE	8	III	No
IMDG	2215	MALEIC ANHYDRIDE	8	III	No
IATA	2215	MALEIC ANHYDRIDE	8	III	No

#### 15. Regulatory Information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

#### 16. Other Information

Issue Date: 01/08/2014

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THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).