



# EFFERGRAN-EFFERGRAN DOSE 5 EFFERBARRIQUE

## MATERIAL SAFETY DATA SHEET

### 1 - IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

Substance

Chemical Name

Commercial Names and Effergran, Efferbarrique, Effergran Dose 5

Synonyms

Chemical Abstract Nomenclature

# Uses

Sulphiting agent, antioxidant, microbic stabilizing agent

Company

Tel. +39-0321-790-300 (please see bottom of the page)

# Emergency service

Niguarda Hospital tel. +39-02-6610-1029

### 2 - COMPOSITION / INFORMATION ON INGREDIENTS

- **General description of the components, relative concentrations and risks**

Chemical name	N° CAS	N°EINECS	Conc/Range %	Classification	
				Symbols	R phrases
Potassium metabisulphite	16731-55-8	240-795-3	75	Xi	R31 R37 (>20%) R41(>5%)
Potassium bicarbonate	298-14-6	206-059-0	25		

See Section 16 for the complete text of R phrases.

### 3 – HAZARDS IDENTIFICATION

Dangerous classified substance according to official current regulations.

Health risks	Risk of serious eyes lesions. Irritant to the respiratory system. In case of contact with acids, it releases sulphur dioxide (SO <sub>2</sub> ), a toxic gas
Environmental risks	If discharged into surface water, the product can cause oxygen reduction with negative consequences on living organisms
Physical and chemical hazards	Uninflammable product. Low risk.
Fire and explosion	In case of a nearby fire, it can release sulphur dioxide (SO <sub>2</sub> ), a toxic gas

### 4 – FIRST AID MEASURES

Inhalation	Move to open air. In case of difficult breathing give oxygen or give artificial respiration
Skin contact	Take off any contaminated clothes. Wash abundantly with water
Eyes contact	Wash immediately with running water with open eyes for at least 15 minutes. Seek medical advice
Ingestion	Let ingest water. Seek medical advice

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## 5 – FIRE-FIGHTING MEASURES

Advised extinguishing agents	Uninflammable. Use water in case of nearby fire
Extinguishing agents to be avoided	None
Dangers caused by combustion matters	Sulphur dioxide
Protection measures in case of intervention	Breathing apparatus
Additional information	The water used for fire extinction, contaminated by the product, must be disposed of according to current local regulations

## 6 – ACCIDENTAL RELEASES MEASURES

Collection and disposal methods	<u>Small quantities:</u> rinse with water and treat the contaminated water by oxidising it with hydrogen peroxide and neutralising it with soda or lime. <u>Big quantities:</u> collect mechanically in suitable containers
Personal-related safety precautions	Provide a suitable ventilation. Wear suitable protection clothes
Environmental protection	Prevent the introduction of the product within the sewage system or canals

## 7 – HANDLING AND STORAGE

Handling	Keep containers closed in order to prevent product oxidation. Prevent dust formation
Storage	Store in a cool, dry and well-ventilated place. Do not store near oxidants, acids or products that can release acids

## 8 – PERSONAL PROTECTION / EXPOSURE CONTROL

Respiratory protection	Anti-dust mask (filter P1)
Skin protection	
Hand protection	Safety gloves
Eyes protection	Safety goggles with side screen. Do not wear contact lenses
Exposure limits	TLV – TWA: unknown (5 mg/m <sup>3</sup> with reference to SO <sub>2</sub> ) (ACGIH 1993-94)

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## 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	physical state	Granular
	colour	White
	smell	Slight of sulphur dioxide
Melting point		
Boiling point		
Density		
Solubility in water		
Flash point		
Inflammability limits (vol % in air)		
Autoignition temperature		
pH		
Coefficient of division n-octanol/water		

## 10 – STABILITY AND REACTIVITY

Conditions to be avoided	Decomposition starting at about 150°C with SO <sub>2</sub> release
Products to be avoided	Acids - Oxidants - NaNO <sub>2</sub> - NaNO <sub>3</sub>
Hazardous decomposition products	Sulphur dioxide

## 11 – TOXICOLOGICAL INFORMATION

Penetration ways	Inhalation yes Ingestion unlikely event Contact yes
Acute toxicity	LD50 (oral, rat): 2300 mg/kg
Inhalation consequences	Irritation of main respiratory tracts
Ingestion consequences	Unlikely event
Skin local effects	Irritation – Sensitisation on persons allergic to the product
Eyes local effects	Irritation – Risk of serious injuries to eyes
Additional information	Unknown

## 12 – ECOLOGICAL INFORMATION

If discharged into surface water the product can cause considerable oxygen decrease with negative consequences on living organisms.

Ichthyotoxicity (acute toxicity) - Brachydamio rerio LC50: 460-1000 mg/L/96h  
Biotoxicity - Pseudomonas putida EC/LD50 (17h): 65 mg/L  
COD: 140 mg/g

## 13 – DISPOSAL CONSIDERATIONS

Product	Inorganic product not to be disposed of through biological treatment systems. Product residuals to be disposed of according to official current regulations and by an authorized contracting firm
Contaminated packages	Empty the package, unfold it completely and dispose of it according to the material

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## 14 – TRANSPORT INFORMATION

Product non subject to ADR/RID and IMO regulations, related to road, sea and airway transport of dangerous goods.

To be transported only with means having the loading zone separated from the driver's cabin. Make sure that the driver is aware of the prospective risk of the loading and that he knows the actions to be taken in case of accident or in case of emergency.

## 15 – REGULATORY INFORMATION

EC labelling	[ ]	Required by the law
	[ X ]	Temporary
	[ ]	Not required
# Classification	Xi	R31, R37, R41, S8, S26

## 16 – OTHER INFORMATION

Hazard symbol	Xi	Irritant
# Risk phrases	R31	In contact with acids it releases toxic gas
	R37	Irritant to the respiratory system
	R41	Risk of serious damage to eyes
Safety phrases	S8	Keep container dry
	S26	In case of contact with eyes rinse immediately with plenty of water and seek medical advice

Risks related to sulphur dioxide: Toxic gas by inhalation, heavier than air.  
It can accumulate itself in closed areas and particularly at soil level or below it. In high concentrations it is corrosive for eyes, respiratory system and skin.

This material safety data sheet has been issued in accordance with 2001/58/CE.

Before starting the use of this product for any new process or experiment, it must be carried out a deep study on the safety and the compatibility of the product itself with materials it could come in contact with.

The information contained in this safety data sheet is given to protect health and safety at work.  
No responsibility is taken for possible damages arising from uses of this information for different purposes from the ones here indicated.

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