

Safety Data Sheet

1. Identification of the substance / preparation and the Company

1.1 Identification of the substance or preparation

Product name CATALIZZATORE PLHG

1.2 Use of the substance / preparation

Intended use Alkoxy-silane

1.3 Company identification

Name COMEC ITALIA SRL
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Product distribution by EDGARDO BAGGINI

1.4 Emergency telephone

2. Hazards Identification

2.1 Substance/Preparation Classification

This product is dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments. Therefore, this product requires a safety data sheet according to the Regulation (EC) 1907/2006 and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

Danger Symbols: Xn
R phrases: 20/22-38-41-43

2.2 Danger Identification

HARMFUL BY INHALATION AND IF SWALLOWED.
IRRITATING TO SKIN.
RISK OF SERIOUS DAMAGE TO EYES.
MAY CAUSE SENSITIZATION BY SKIN CONTACT.

3. Composition / Information on ingredients

Contains:

Name	Concentration % (C)	Classification
N-(3-(TRIMETOSSISILIL)PROPIL)ETILANDI AMMINA	78 <= C < 82	Xn R20/22
CAS No 1760-24-3		Xi R38
CE No 217-164-6		Xi R41
		Xi R43

OLIGOMERI DI AMMINOALCHILMETOSSISILANI	18 <= C < 19,5	Xn	R22
		Xi	R41
		Xi	R43

METHANOL	0,7 <= C < 0,8	F	R11
CAS No 67-56-1		T	R23/24/25
CE No 200-659-6		T	R39/23/24/25
Index No 603-001-00-X			

The complete text of -R- phrases is specified in section 16.

4. First aid measures

No episodes of damage to health ascribable to the product have been reported. Nevertheless, observance of good industrial hygiene is recommended.

5. Fire-fighting measures

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SUITABLE EXTINGUISHING MEDIA

The extinction equipment should be of the conventional kind: carbon dioxide, foam, powder and nebulised water.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

None in particular.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with straps around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of foam.

6. Accidental release measures

PERSONAL PRECAUTIONS

Use breathing equipment if fumes or powders are released into the air.

ENVIRONMENTAL PRECAUTIONS

The product must not penetrate the sewers, surface water, ground water and neighbouring areas.

METHODS FOR CLEANING UP

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

7. Handling and storage

Make sure that equipment is available for cooling the vessels, to prevent the danger of overpressure and overheating in the event of fire in the vicinity. Refer to the other sections of this data sheet for information relating to health and environmental risks.

8. Exposure control / personal protection.

8.1 Exposure limit values

Name	Type	Country	TWA/8h		STEL/15min		
			mg/m3	ppm	mg/m3	ppm	
METHANOL	TLV-ACGIH		262		328		Skin
	OEL	EU	260	200			Skin
	OEL	IRL		200		250	Skin
	WEL	UK		200		250	Skin

8.2 Exposure controls

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration or bad air vent. If such operations do not make it possible to keep the concentration of the product below the permitted workplace exposure thresholds a suitable respiratory tract protection must be used. See product label for hazard details during use. Ask your chemical substance suppliers for advice when choosing personal protection equipment. Personal protection equipment must comply with the rules in force indicated below.

RESPIRATORY PROTECTION.

If workplace maximum concentration thresholds are exceeded, wear a partial facemask with an ABEK2P3 fume and powder mask (see standard EN 141). If no technical measures are defined, to limit worker exposure, airway protection equipment, such as masks with cartridges for organic fumes and for powders/dusts, must be used. Facemasks only provide limited protection. For high concentrations in the workplace or in the case of an emergency, when exposure levels are unknown, wear an open circuit compressed air self-respirator (see standard EN 137) or an external air intake respirator with mask, partial mask or snorkel (see standard EN 138).

HAND PROTECTION.

Protect hands using Laminare LCT Film work gloves. We recommend applying protective hand cream. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.

EYE PROTECTION.

Wear sealed protective goggles with side shields (see standard EN 166).

SKIN PROTECTION.

Wear overalls with long sleeves and professional safety footwear (see standard EN 344). Wash with soap and water after removing protective clothing. Wash clothing before reuse.

9. Physical and chemical properties

Colour	dirty white
Odour	odorless
Physical state	liquid
Viscosity	6,5 cSt a 25 °
Vapour density	Not available
Evaporation speed	Not available
Comburent properties	Not available
Partition coefficient: n-octanol/water	Not available
pH	Not available
Boiling point	>35°C
Flash point	62°C
Explosive properties	Not available
Vapour pressure	Not available
Specific gravity	1,030Kg/l
VOC (Directive 1999/13/EC) :	0,80 % - 8,24g/litre of preparation
VOC (volatile carbon) :	0,30 % - 3,09g/litre of preparation

10. Stability and reactivity

The product is stable in normal conditions of use and storage. In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.

11. Toxicological information

Acute effects: inhalation and ingestion of this product are harmful. This product may irritate mucosas, the upper respiratory tract, eyes and skin. Exposure symptoms may include: stinging and irritated eyes, mouth, nose, throat; cough, respiratory disorders, dizziness, headache, nausea and sickness.

In the most serious cases, inhalation of this product may cause larynx and bronchial tube edema and irritation, chemical pneumonia and pulmonary edema. Ingestion of even small amounts of this product may cause serious health disorders (stomach pain, nausea, sickness, diarrhoea).

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurries, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

13. Disposal consideration

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

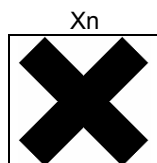
CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information

This substance is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

15. Regulatory information



HARMFUL

R20/22	HARMFUL BY INHALATION AND IF SWALLOWED.
R38	IRRITATING TO SKIN.
R41	RISK OF SERIOUS DAMAGE TO EYES.
R43	MAY CAUSE SENSITIZATION BY SKIN CONTACT.
S 9	KEEP CONTAINER IN A WELL-VENTILATED PLACE.
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.
S37/39	WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION.

Contains:

N-(3-(TRIMETOSSISILIL)PROPIL)ETILANDIAMMINA
OLIGOMERI DI AMMINOALCHILMETOSSISILANI

Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments. Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

16. Other information

Text of -R- phrases quoted in section 3 of the sheet.

R11	HIGHLY FLAMMABLE.
R20/22	HARMFUL BY INHALATION AND IF SWALLOWED.
R22	HARMFUL IF SWALLOWED.
R23/24/25	TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R38	IRRITATING TO SKIN.
R39/23/24/25	TOXIC: DANGER OF VERY SERIOUS IRREVERSIBLE EFFECTS THROUGH INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R41	RISK OF SERIOUS DAMAGE TO EYES.
R43	MAY CAUSE SENSITIZATION BY SKIN CONTACT.

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments;
2. Directive 67/548/EEC and following amendments and adjustments (technical adjustment XXIX);
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament;
4. The Merck Index. - 10th Edition;
5. Handling Chemical Safety;
6. Niosh - Registry of Toxic Effects of Chemical Substances;
7. INRS - Fiche Toxicologique (toxicological sheet);
8. Patty - Industrial Hygiene and Toxicology;
9. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition;

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

PRODUCT FOR PROFESSIONAL USE ONLY.

Changes to previous review

The following sections were modified:

01 / 02 / 03 / 08 / 09 / 13 / 15

**COMEC ITALIA SRL
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