

# Safety Data Sheet

## 1. Identification of the substance / preparation and the Company

### 1.1 Identification of the substance or preparation

Product name Metaldehyde 3%  
Chemical name and synonym Metaldehyde - Denatonium benzoate

### 1.2 Use of the substance / preparation

Intended use Molluscicide

### 1.3 Company identification

Name Kollant S.p.a.  
Full address Via C. Colombo, 7/7A  
District and Country 30030 Vigonovo (VE)  
Italia  
Tel. +39 049 9983000  
Fax +39 049 9983005

### 1.4 Emergency telephone

## 2. Hazards Identification

NOTHING TO NOTIFY

## 3. Composition / Information on ingredients

Contains:

Name	Concentration C	Classification
METALDEHYDE	3	R10
Cas No 108-62-3		XN R22
CE No 203-600-2		
Index No 605-005-00-7		

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

## 4. First aid measures

**EYES:** Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

**SKIN:** Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

**INHALATION:** Remove to open air. If breathing is irregular, seek medical advice.

**INGESTION:** Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

## **5. Fire-fighting measures**

Closed containers exposed to heat may lead to pressure rise and explode. For information regarding environmental risks, refer to section 12 of this sheet.

Extinguishing measures: carbon anhydride, foam, water, if not otherwise specified on the containers.

Individual protective equipment: equipment complete with helmet and face shield and protection of the neck, insulative jacket and trousers, with bands around the arms, legs and waist and selfbreathing apparatus.

## **6. Accidental release measures**

Extinguish the sources of ignition or heat; cover the spillage with inert absorbent material. Collect as far as possible the resulting mass and discard the remainder by spraying water.

For information on environmental and health risks, protection of the respiratory airways, ventilation and individual protective measures refer to the other sections of this sheet.

## **7. Handling and storage**

Store in a well ventilated place, keeping the containers closed when not used. Do not smoke while handling. Keep far away from sources of heat, naked flames and sparks and other sources of ignition.

## **8. Exposure control / personal protection.**

### 8.1 Exposure limit values

N.A.

### 8.2 Exposure controls

In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures, such as: masks suitable for the product, goggles, gloves and overall. Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals and at the end of the work shift.

## **9. Physical and chemical properties**

Odour  
Appearance  
Solubility  
colour  
Viscosity  
Vapour density

Odourless  
Pellet  
Hydroleakable  
Blue  
N.A.  
N.A.

Partition coefficient: n-octanol/water	N.A.
pH	4,7
Boiling point	N.A.
Flash point	>21°C
Explosive properties	N.A.
Vapour pressure	N.A.
Specific gravity	0,710Kg/l
Solid content:	0,03 %
VOC (Directive 1999/13/EC) :	0
VOC (volatile carbon) :	0

## 10. Stability and reactivity

The product is stable in normal conditions of use and storage. When heated or in the event of a fire, carbonoxides may be released and vapours which are dangerous to health. The vapours may also form explosive mixtures with the air.

## 11. Toxicological information

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices. This preparate may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.

Metaldehyde:

DL50 oral = 630 mg/kg (rat)

DL50 dermal > 5000 mg/kg (rat)

FURTHER INFORMATON FOR CLINICIANS:

Symptoms: this substance is virtually insoluble in water and is soluble in benzene/chloroform solutions; toxic dose for humans: 50 mg/kg approx. It irritates mucous membranes. Lag time: 30 minutes. Nausea, vomit, diarrhea, abdominal pain, hyperthermia, convulsions, trismus, respiratory palsy. After-effects: hepatorenal damage.

Therapy: symptomatic.

Notice: seek the advice of an anti-poisoning center.

## 12. Ecological information

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

## 13. Disposal consideration

Consider the possibility of burning the product in a suitable incenerator.

Acid or basic products must always be neutralized before undergoing any treatment, including biological treatment whenever feasible. If the waste is solid, it can be disposed of in a landfill.

## 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

S 1/2            KEEP LOCKED UP AND OUT OF THE REACH OF CHILDREN.  
S13             KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.  
S20/21        WHEN USING DO NOT EAT, DRINK OR SMOKE.

Safety data sheet available upon request for professional users.

Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments.

## 16. Other information

Text of -R- phrases quoted in section 2 of the sheet.

R10             FLAMMABLE.  
R22             HARMFUL IF SWALLOWED.

### 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.

Changes to previous review

The following sections were modified:

03 / 05 / 06 / 09 / 10 / 11 / 12 / 13 / 15 / 16