

**J COLORS S.p.A.****Muffa stop**Divisione TOSCANO
Revision nr.8
Dated 22/04/2010
Printed on 02/05/2010
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Safety Data Sheet

1. Identification of the substance / preparation and the Company

1.1 Identification of the substance or preparation

Product name Muffa stop

1.2 Use of the substance / preparation

Intended use Additivo antimuffa

1.3 Company identification

Name J COLORS S.p.A.
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District and Country 20020 LAINATE MI
ITALIA
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e-mail address of the competent person responsible for the Safety Data Sheet lab@jcolors.com

Product distribution by Laboratorio J Colors S.p.A
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1.4 Emergency telephone

For urgent inquiries refer to Centro Antiveleni Milano
Niguarda +39 02 66101029

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: Xi
R phrases: 36/38 - 43

2.2 Danger Identification

IRRITATING TO EYES AND SKIN.
MAY CAUSE SENSITIZATION BY SKIN CONTACT.

3. Composition / Information on ingredients

Contains:

Name	Concentration % (C)	Classification
N,N-DIDECYL-N,N-DIMETHYLAMMONIUM CHLORIDE	6,90<= C <9,00	C R34 Xn R22
C.A.S. number 7173-51-5		
EC number 230-525-2		
4,5-DICHLORO-2-OCTYL-3(2H)-ISOTHIA-LONE	1,00<= C <2,00	C R34 Xn R21/22 Xi R37 Xi R43 N R50
C.A.S. number 64359-81-5		
EC number 264-843-8		
3-iodo-2-PRPINILBUTILCARBAMMATO	0,4999<= C <0,6999	Xn R20/22 Xi R41 N R50
C.A.S. number 55406-53-6		
EC number 259-627-5		



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PROPAN-2-OL

C.A.S. number 67-63-0
EC number 200-661-7
INDEX number 603-117-00-0

1,90<= C <3,00

F R67
R11

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

4. First aid measures

EYES: Wash immediately with plenty of water for at least 15 minutes and seek medical advice at once.

SKIN: Immediately take off all contaminated clothing and have a shower. Seek medical advice.

INGESTION: Have the patient drink water as much as possible and seek medical advice immediately. Do not induce vomiting before consulting a doctor.

INHALATION: Immediately seek medical advice. In the meantime, remove the patient to open air, far from the contaminated premises; if respiration stops or is difficult, give an artificial respiration adopting the proper measure for the helper.

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. Excess pressure may form in containers exposed to fire at a risk of explosion. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water and the remains of the fire according to applicable regulations.

SUITABLE EXTINGUISHING MEDIA

The extinction equipment should contain carbon dioxide, foam or chemical powders. For product leaks and spills that have not caught fire, nebulised water can be used to dispel flammable fumes and protect the individuals taking part in stemming the leak.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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 ties around arms, legs and waist) work gloves (fireproof, cut proof and dielectric), self-respirator (self-protector).

6. Accidental release measures

PERSONAL PRECAUTIONS

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. If there are no contraindications, spray solid products with water to prevent the formation of dust. Use breathing equipment if fumes or powders are released into the air. Block the leakage if there is no hazard. Do not handle damaged containers or the leaked product before donning appropriate protective gear. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, see the other sections of this sheet.

ENVIRONMENTAL PRECAUTIONS

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

METHODS FOR CLEANING UP

Use inert absorbent material (sand, vermiculite, diatomaceous earth, Kieselguhr, etc.) to soak up leaked product. Collect the majority of the remaining material and deposit it in containers for disposal. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. 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

Product name	Type	Country	TWA/8h		STEL/15min		
			mg/m3	ppm	mg/m3	ppm	
PROPAN-2-OL	TLV-ACGIH		491,5	200	983	400	Skin
	OEL	IRL		400		500	Skin
	WEL	UK		400		500	Skin



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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.

HAND PROTECTION

Protect hands with category II (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVC, neoprene, nitril or equivalent. 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 protective airtight goggles (ref. standard EN 166).

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

RESPIRATORY PROTECTION

If the threshold value for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an A or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141).

The use of breathing protection equipment, such as masks with organic vapour and dust/mist cartridges, is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).

An emergency eye washing and shower system must be provided.

9. Physical and chemical properties

Colour	Biancastro
Odour	Typical
Appearance	Pasty
Solubility	Water-soluble
Viscosity	2700-4000 mPa.s
Vapour density	Not available
Evaporation Rate	Not available
Reactive Properties	Not available
Partition coefficient: n-octanol/water	Not available
pH	Not available
Boiling point	Not available
Flash point	> 60 °C
Explosive properties	Not available
Vapour pressure	17,61 a 20° C
Specific gravity	1,150 Kg/l
Solid content:	4,43%
VOC (Directive 1999/13/EC) :	2,25% - 25,87 g/litre of preparation
VOC (volatile carbon) :	1,34% - 15,41 g/litre of preparation

10. Stability and reactivity

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

11. Toxicological information

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Vapour inhalation may slightly irritate the upper respiratory tract. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

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, scurvies, 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

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil, sewers and waterways. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.



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Please take all the proper measures to reduce harmful effects on aquifers.

N,N-DIDECYL-N,N-DIMETHYLAMMONIUM CHLORIDE

LC50 (96h) 1 mg/l trota iridea
EC50 (48h) 0,094 mg/l daphnia magna
IC50 (72h) 0,026 mg/l alghe cloroficee

4,5-DICHLORO-2-OCTYL-3(2H)-ISOTHIA-LONE

LC50 (96h) 0,0027 mg/l trota
EC50 (48h) 0,0052 mg/l daphnia magna
IC50 (72h) 0,048 mg/l alga verde

3-iodo-2-PRPINILBUTILCARBAMMATO

LC50 (96h) 0,3 mg/l
EC50 (48h) 0,75 mg/l daphnia magna
IC50 (72h) 0,022 mg/l scenedesmus subspicatus

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

Xi



IRRITANT

R36/38	IRRITATING TO EYES AND SKIN.
R43	MAY CAUSE SENSITIZATION BY SKIN CONTACT.
S 2	KEEP OUT OF THE REACH OF CHILDREN.
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	WEAR SUITABLE GLOVES.
S46	IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

Contains:

4,5-DICHLORO-2-OCTYL-3(2H)-ISOTHIA-LONE

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.

Product not intended for uses provided for by Dir. 2004/42/CE.

16. Other information

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

R22	HARMFUL IF SWALLOWED.
R34	CAUSES BURNS.
R21/22	HARMFUL IN CONTACT WITH SKIN AND IF SWALLOWED.
R37	IRRITATING TO RESPIRATORY SYSTEM.
R43	MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R50	VERY TOXIC TO AQUATIC ORGANISMS.
R20/22	HARMFUL BY INHALATION AND IF SWALLOWED.



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R41 RISK OF SERIOUS DAMAGE TO EYES.
R67 VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.
R11 HIGHLY FLAMMABLE.

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) 1272/2008 (CLP) of the European Parliament;
4. Regulation (EC) 1907/2006 (REACH) of the European Parliament;
5. The Merck Index. - 10th Edition;
6. Handling Chemical Safety;
7. Niosh - Registry of Toxic Effects of Chemical Substances;
8. INRS - Fiche Toxicologique (toxicological sheet);
9. Patty - Industrial Hygiene and Toxicology;
10. 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:

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