

SAFETY DATA SHEET

STYLMARK

Version: 3

Review date: 01/02/2004

91/155/EC (2001/58/EC) - ISO 11014-1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name: STYLMARK

Uses or/and applications: Industrial marking

Supplier: INTRAMA
PIPA - Allée des Combes
F-01150 BLYES
France
Phone: +33 (0)4 74 46 23 23
Fax: +33 (0)4 74 46 23 29
E-mail: intrama@intrama.com

Emergency phone number (to be used by the practising doctor): UK - National Poisons Information Service Phone: 44 / 191 22 5131
B - Centre Antipoisons Tél: 070 / 245.245

2. COMPOSITION / INFORMATION ON INGREDIENTS

Preparation name: STYLMARK

Description of the preparation: Mixture of acrylic resins and of solvents

Component(s) contributing to the health hazard: • n-butyl acetate - Id No: 607-025-00-1 - CAS no: 123-86-4 - EC no: 204-658-1
Conc. wt.(%): 30 < C ≤ 40 - Classification: • R 10 • R 66 • R 67 •

3. HAZARDS IDENTIFICATION

Most important hazards: R10 : Flammable.
R66 : Repeated exposure may cause skin dryness or cracking
R67 : Vapours may cause drowsiness and dizziness

Specific hazards: Flammable product on area where flame is applied; no propagation
Possibility of explosion when mixed with air
Possibility of irritation of the respiratory system, skin and eyes. Inhaling the vapours may cause drowsiness and dizziness.
May cause sensitisation by skin contact.
May cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

General advice: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove from exposure, if possible in fresh air and lie down the victim.
Give oxygen or artificial respiration if necessary.
Take medical advice immediately.

Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner.
Do NOT use solvents or thinners.
In case of faintness or symptoms of skin irritation appear, take medical advice.

Eye contact: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.

Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: alcohol-resistant foam, carbon dioxide (CO₂), powder.

Extinguishing media which must NOT be used for safety reasons: Do not use water jet.

Specific method(s): Cool closed containers exposed to fire with water spray.
Do not allow run-off from fire fighting to enter drains or water courses.

Specific fire hazard(s): Flammable product on area where flame is applied; no propagation
Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required.
Thermal breakdown may produce thick black smoke and the release of carbon and nitrogen oxides.

SAFETY DATA SHEET

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Special protective equipment for fire-fighters:

Use a self-contained breathing apparatus and also a protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precaution(s):

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8. Stop leak without risks if possible.

Environmental precaution(s):

Do not allow to enter drains or water courses. If the product enters drains or sewers the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the National Rivers Authority.

Method(s) for cleaning up:

Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Clean preferably with a detergent - Avoid the use of solvents.

7. HANDLING AND STORAGE

Handling

- Precaution(s):

Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection, see Section 8. The Manual Handling Operations Regulations may apply to the handling of containers of this product. Refer to the guide weight indicated on the container when carrying out assessments.

- Technical condition(s):

The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Avoid static electricity discharges.

- Safe handling advice(s):

Keep the container tightly closed. Exclude sources of heat, sparks and open flame. Non-sparking tools should be used. Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Never use pressure to empty: the container is not a pressure vessel. Always keep in containers made of the same material as the supply container.

Storage

- Precaution(s):

Keep container tightly closed in a cool place. Keep away from open flames, hot surfaces and sources of ignition. No smoking. Prevent unauthorised access.

- Storage condition(s):

Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store at temperatures between 10°C and 25°C. Containers which are opened should be properly resealed and kept upright to prevent leakage.

- Separation of incompatible product(s):

Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

- Packaging / tank material:

made of the same material as the supply container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measure(s):

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn.

Control parameter(s):

- Exposure limit(s):

• n-butyl acetate: VME ppm = 150 - VME mg = 713 - VLE ppm = 200 - VLE mg = 950
compound nr: 1 - T.L.V.-T.W.A. = ppm - S.T.E.L. = ppm

Personal protection equipment:

- Respiratory protection:

Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit. Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

- Hand protection:

Barrier creams may help to protect exposed areas of the skin but are not substitutes for full

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- physical protection. They should not be applied once exposure has occurred.
When skin exposure may occur, advice should be sought from glove suppliers on appropriate types. protective gloves
- Skin and body protection: Cotton or cotton/synthetic overalls or coveralls are normally suitable.
 - Eye protection: Eye protection designed to protect against liquid splashes should be worn. If necessary, provide eye rinse basins close to place of work.
- Hygiene measure(s): Wash hands immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

- Physical state / form: paste
- Colour: White, yellow, red, blue, green, black, orange, purple, pink, brown or grey.
- Odour: Odour: characteristic

Important health, safety and environmental information

- PH: Not applicable.
 - Boiling point/range: > 35°C
 - Flash point: 27,5°C
 - Explosion limits: %Vol in air: < 1,2 / > 7,5
 - Relative density (water = 1): 1,31 kg/m³ (23°C)
 - Viscosity: No flow in 4 and 6 mm tubes.
 - Water solubility: Non miscible.
 - Fat solubility: weak
 - Solvent solubility: soluble in some specific organic solvents
- Other information
Solvent separation : not observed after 24 hours.
Penetration rate : 16,0 mm (after 5 s) then 0,5 mm (after another 55 s).

10. STABILITY AND REACTIVITY

- Stability: Stable under the recommended storage and handling conditions. (See Section 7).
Vapours may form explosive mixture with air.
- Condition(s) to avoid: No naked flames, sparks, and do not smoke.
- Material(s) to avoid: Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.
- Hazardous decomposition products: When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, NxOy

11. TOXICOLOGICAL INFORMATION

- General information(s): No available information on preparation.
- Acute toxicity
- Inhalation: Exposure to organic solvent vapours may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous systems..
Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
n-buthyl acetate:
LC50/inhalation/1h/rat = 160 ppm
 - Skin contact: May cause skin irritation / dermatitis.
Components of the product may be absorbed into the body through the skin.
n-buthyl acetate:
LD50/dermal/rabbit = 17 600 mg/kg
 - Eyes contact: Splashes in the eyes may cause irritation and reversible local damage.
 - Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
High concentrations may cause injuries to gastrointestinal tract, liver, kidneys and central nervous system.
n-buthyl acetate:
LD50/oral/rat = 10 768 mg/kg

12. ECOLOGICAL INFORMATION

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General information(s):	There is no data available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.
Mobility:	Bibliographical data not available
Persistence and degradability:	Bibliographic data (degradation over half-life periods) not available.
Bioaccumulation:	Bibliographical data (Kow and BCF) not available.
Environmental toxicity:	May be harmful to aquatic organisms, to flora, to soil organisms. n-buthyl acetate Fish (brachydanio rerio) : LC50 (fatal) / 96 h = 62 000 µg/l Invertabrates (daphnia magna) : EC100 (abundance) / 24 hrs = 500 mg Algae (chilomonas paramecium) : increased biomass / 48 hrs = 670 000 µg/l

Other adverse effects

13. DISPOSAL CONSIDERATIONS

Waste / unused products:	Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.
Contaminated packaging:	Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Further Information(s):

14. TRANSPORT INFORMATION

General information(s):	Unclassified product : as a paste it does not come within Class 4.1.
UN N°:	Not applicable.

15. REGULATORY INFORMATION

Labelling:	.
EC number:	Not applicable.
Symbol(s):	None according to EC directives.
R-phrases(s):	10 Flammable. 66 Repeated exposure may cause skin dryness or cracking 67 Vapours may cause drowsiness and dizziness
S-phrases(s):	None according to EC directives.

16. OTHER INFORMATION

Item nr 2 : R-phrases(s)	R10 Flammable. R66 Repeated exposure may cause skin dryness or cracking R67 Vapours may cause drowsiness and dizziness
Important remarks:	As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The user is always responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet is based on the present state of knowledge and current national legislation it provides guidance on health safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.
Uses or/and applications:	Industrial marking
Restrictions:	The product should not be used for purposes other than those shown in Section 16 without first referring to the supplier and obtaining written handling instructions.
Recommendation(s):	Personnel should receive training concerning the risks, precautions and measures to be taken in the event of an accident.
References and/or bibliography:	OHS, ELLIS and WEKA data bases. International and national regulations concerning the transport of dangerous materials.
- First edition date:	26/11/2002

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Written by:	OM