

Material Safety Data Sheet

1. Identification of the substance and the company

1.1 Identification of the substance

Trade name SPOTTING AGENT D3
Description/Use FOR USE ON VARNISH, BALL-POINT PENN, LIPSTICK, OIL PAINT, RESINS, INK, GLUE, SHOE-POLISH STAINS, etc.

1.2 Identification of the company

Company name TINTOLAV s.r.l.
Address Via Massimo D'Antona, 7
Postal town and country 10028 TROFARELLO (TO)
ITALY
tel. +39 011/6496827
fax +39 011/6496742
Emergency telephone number: Ospedale Niguarda (MI), Poison prevention centre tel. +39 02/66101029

2. Composition / Information on the ingredients

Chemical characterization: Preparation (Aliphatic esters, alcohols and anionic surfactants)

Hazardous components	CAS-No. EINECS-No. ELINCS-No.	Symbol(s)	R-phrases	Concentration
Butylacetate	123-86-4 204-658-1 607-025-00-1		R10, R66, R67	50 - 100
Isobutanol	78-83-1 201-148-0 603-108-00-1	Xi	R10, R37/38 R41, R67	1 - 15
Methoxypropylacetate	108-65-6 203-603-9	Xi	R10, R36	1 - 15
Cocoamide DEA	68603-42-9 271-657-0	Xi	R38, R41	1 - 15
Aliphatic alcohols, ethoxylated	68131-39-5	Xn	R22, R41	1 - 15
Fat alcohols, ethoxylated	26183-52-8	Xn	R22, R41	1 - 15

3. Hazards identification

3.1 Classification of the substance and of the preparation

Indication of danger: Xi Irritant

R10 Flammable.
R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness.

Classification system: The classifications are in line with current EG lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4. First aid measures

General:

Immediately withdraw all contaminated clothing

Inhalation: to bring the subject in the area very well mested and safety consult a doctor. Usually irrelevant

SPOTTING AGENT D3

Version n. 3
Version Date 21/01/2008
Print 29/04/2008
Page n.2 / 5

Contact with the skin: Wash immediately with soap and water rinsing thoroughly.
Contact with the eyes: rinse immediately with plenty of water for at least 15 minutes. If irritation persists, consult a doctor
Ingestion: absolutely not cause vomiting. Using an immediate medical examination. Rinse your mouth and drink plenty of water.

Indication to the doctor:
Symptoms: can 'cause nausea, state of unconsciousness, gastrointestinal disorders.

5. Fire-fighting measures

Specific hazards during fire fighting: Carbon monoxide (CO) unburned hydrocarbons.
Special protective equipment for fire-fighters: Standard procedures for chemical fires.
Suitable extinguishing agent: Alcohol resistant foam, dry-chemical, carbon dioxide or sand.
Extinguishing media which must not be used for safety reasons: High volume water jet.
Further information: In the event of fire and/or explosion do not breathe fumes.

6. Accident release measures.

Personal precautions: Wear protective clothing. Keep away from ignition sources. Use in a well ventilated area.
Environmental precautions: Prevent spills from entering to groundwater. Do not discharge into drains, sewers or rivers.
Clean up procedures. Soak up with oil absorbent materials.

7. Handling and storage

Handling

Safe handling advice: Take precautionary measures against static discharges. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice.
Procedures against fire and explosion: Keep away from heat and sources of ignition and oxidising agents

Storage

Requirements for storage areas and containers: Store the product in tightly closed original containers in a cool, dry, well ventilated storeroom. Must be stored in a safe location for flammable liquids
Advice on common storage: Incompatible with oxidising agents.

8. Exposure controls / personal protection

Additional technical information: Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.

Components with workplace control parameters

CAS-Nr.	Product	Value		Update	Basis
123-86-4	butylacetate	480mg/m ³	100ml/m ³	04/2003	TRGS 900
78-83-1	isobutanol	310mg/m ³	100ml/m ³		
108-65-6	methoxypropylacetate	270mg/m ³	50ml/m ³		

Additional information: The lists that were used during the compilation were used as basis.

Personal protection procedures.

Hand protection: Neoprene gloves, preventative skin protection. Do not wear leather gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the glove manufacturer. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and contact time.

Eye protection: Safety glasses.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Take off contaminated clothing and shoes immediately. Wash hands thoroughly before breaks and at the end of the workday.

Protective measures: Use only in well ventilated areas. Washing hands thoroughly before breaks and at the end of the workday. Keep away from food, drink and animal feed.

9. Physical and chemical properties

Colour	colourless	
Smell	characteristic	
Physical state	liquid	
Boiling point range	no data available	
Solidification temperature range:	no data available	
Flash point	28°C	DIN 51755
Ignition temperature	335°C	
Auto-ignition temperature	not self-inflammable	
Upper explosion limit	11.0 % (Vol.)	
Lower explosion limit	1.5 % (Vol.)	
Density at 20°C	0.903 g/cm ³	DIN 51757
Water solubility	soluble	
Viscosity at 20°C	ca. 5 mPa.s	DIN 54453
Vapour pressure at 20°C	no data available	
Evaporation velocity	no data available	

10. Stability and reactivity

Conditions to be avoided: Avoid formation of aerosols. Keep away from heat and sources of ignition. Take precautionary measures against static discharges.

Materials to be avoided: Strong oxidising agents.

Hazardous reactions: Vapours may form explosive mixtures with air.

Note: No decomposition if stored as directed.

11. Toxicological information

Acute toxicity:

LD50 Ratte >5000 mg/kg

Eye irritation: Irritating to eyes.

Skin irritation: Prolonged skin contact may cause skin irritation and/or dermatitis.

Further information: Degreases the skin. Prolonged skin contact may cause skin irritation. Inhalation of aerosols may cause irritation.

12. Ecological information

Data on (persistence and degradability)

Mild biodegradable:> 70%, 28 d, OECD Directive 301-A (new version)

Mild biodegradable:> 60% 28 d, OECD Directive 301-B

The surfactants in the product comply with the regulations of the European Community on the biodegradability of surfactants.

Danger for water class 1 (self-assessment): little dangerous (VwVwS/17.05.1999).

Avoid penetration in the subsurface. Do not download the flow of water washing into surface or sanitation health. Before downloading treat sewage in the solutions used as provided by the rules.

13. Disposal considerations

Product: Can be incinerated when in compliance with Local Authority regulations.

Contaminated packaging: Dispose of as special waste in compliance with local and national regulations.

14. Transport information

Regulation	ADR
UNAD-No.	1993
Proper shipping name	Flammable liquids, N.O.S. (contains butyacetate and isobutanol)
Packaging group	III
Class	3

SPOTTING AGENT D3

Version n. 3
Version Date 21/01/2008
Print 29/04/2008
Page n.4 / 5

Regulation RID
UNAD-No. 1993
Proper shipping name Flammable liquids, N.O.S. (contains butylacetate and isobutanol)
Packaging group III
Class 3

Regulation IMDG
UNAD-No. 1993
Proper shipping name Flammable liquids, N.O.S. (contains butylacetate and isobutanol)
Packaging group III
Class F-E-S-D

Regulation IATA_C
UNAD-No. 1993
Proper shipping name Flammable liquids, N.O.S. (contains butylacetate and isobutanol)
Packaging group III
Class 3

Regulation IATA_P
UNAD-No. 1993
Proper shipping name Flammable liquids, N.O.S. (contains butylacetate and isobutanol)
Packaging group III
Class 3

15. Regulatory information

Hazardous components which must be listed on the label:

- Butylacetate
- Isobutanol

Labelling Xi Irritant

R-phrases): R10 Flammable.
R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness.

S-phrase(s)
S23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
S25 Avoid contact with eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Further information: Contact with the product may lead to skin or eye irritation.

Classification of certain specific preparations:
Components parameter 89/542/EEC
Class hazard for water:
Hazard for water class 1 (self-assessment): little dangerous (VwVwS/17.05.1999)

16. Other information

PRODUCT FOR ONLY PROFESSIONAL USE IN THE LAUNDRIES.

Text of R-phrase(s) mentioned in Section 2 + 3

R10 Flammable.
R22 Harmful if swallowed.
R36 Irritating to the eyes.
R37 Irritating to the respiratory system
R38 Irritating to the skin.
R41 Risk of serious damage to the eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness.

The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim

SPOTTING AGENT D3

Version n. 3
Version Date 21/01/2008
Print 29/04/2008
Page n.5 / 5

liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.