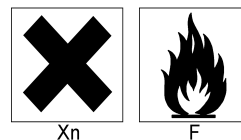


Safety Data Sheet

F219 REDUCER FORMULATION



Safety Data Sheet dated 9/6/2009, version 5

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

Trade name: F219 REDUCER FORMULATION
Trade code: IF219
Product type and use: VARNISH THINNER
Company:
ELANTAS Deatech Srl - Zona Industriale Campolungo, 35 - 63100 Ascoli Piceno - ITALY
Tel. +39 0736 3081 - Fax +39 0736 402746
Emergency telephone number of the company and/or of an authorised advisory centre:
ELANTAS Deatech Srl - tel. +39 0736 3081 - fax +39 0736 402746

Competent person responsible for the safety data sheet:
MSDS.ELANTAS.Deatech@altana.com

2. HAZARDS IDENTIFICATION

The product easily catches fire if it is exposed to an ignition source.
The product is harmful following acute exposure to it and poses a serious health threat if inhaled or brought into contact with the skin.
If brought into contact with the eyes, the product causes considerable irritation that may last for over 24 hours, and if inhaled, it can cause irritation to the airways.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

- 50% - 60% 4-methylpentan-2-one
N.67/548/CEE: 606-004-00-4 CAS: 108-10-1 EC: 203-550-1
F,Xn,Xi; R11-20-36/37-66
- 40% - 50% xylene
N.67/548/CEE: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7
Xn,Xi; R10-20/21-38
- 7% - 10% ethylbenzene
N.67/548/CEE: 601-023-00-4 CAS: 100-41-4 EC: 202-849-4
F,Xn; R11-20

4. FIRST AID MEASURES

Contact with skin:
Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Contact with eyes:
Do not use eyewash or ointment of any kind (before obtaining an examination or advice

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from an eye specialist).

Wash immediately with water for at least 10 minutes.

Swallowing:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

Give liquid paraffin to drink; do not give milk or animal or vegetable fats of any kind.

Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.

5. FIRE-FIGHTING MEASURES

Recommended extinguishing agents:

In case of fire, use fire-extinguisher by foam (fluoroproteinic or alcohol resistant foam), dust and CO₂.

Extinguishing agents not to be used:

Water jet - risk of propagation of the flame

Risks arising from combustion:

During combustion the preparation may release carbon dioxide, carbon monoxide, nitrogen oxides and black, dense smoke.

Avoid inhaling the fumes.

Product is flammable. Cool down the containers exposed to the fire with water to prevent bursting.

Protective equipment for fire-fighting personnel:

Personal protection typical in case of fire. Wear suitable respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use a mask, gloves and protective clothing.

Keep other people out. Avoid contact with skin and eyes. Do not breathe vapours. Keep the proper ventilation. See section 8.

Environmental measures:

Do not allow the product to contaminate surface, water/ground water. Limit leakages with earth or sand.

Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

Rapidly recover the product. To do so, wear a mask and protective clothing.

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

7. HANDLING AND STORAGE

Handling precautions:

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.

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Takes precautionary measures against static discharges - ground connect all equipment.

Wear antistatic protective clothes.

Do not eat or drink while working.

Do not smoke while working.

Incompatible materials:

None in particular.

Storage conditions:

Always keep in a well ventilated place.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Instructions as regards storage premises:

Cool and adequately ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautionary measures:

Use the product in accordance with good occupational hygiene and safety practices.

Before break and after work carefully wash hands. Take off dirty cloth immediately. Avoid contact with skin and eyes. When handling do not eat, drink or smoke, take a medicine.

Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged, e.g. mask with an organic vapour type A2 filter.

If - in consequence of the evaluation made by the final user - there is a risk of exposure, use adequate protective respiratory equipment, e.g. mask with an organic vapour type A2 filter.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., viton or nitrile rubber.

Eye protection:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Components with Occupational Exposure Limit(s), that require monitoring at the workplace (ACGIH):

4-methylpentan-2-one

VLE 8h: 83 mg/m³ - 20 ppm VLE short: 208 mg/m³ - 50 ppm TLV TWA: 50 ppm - 204,83 mg/m³ TLV STEL: 75 ppm - 307,24 mg/m³

xylene

VLE 8h: 221 mg/m³ - 50 ppm VLE short: 442 mg/m³ - 100 ppm TLV TWA: 100 ppm, A4 - 434,19 mg/m³, A4 TLV STEL: 150 ppm, A4 - 651,29 mg/m³, A4

ethylbenzene

VLE 8h: 442 mg/m³ - 100 ppm VLE short: 884 mg/m³ - 200 ppm TLV TWA: 100 ppm, A3 - 434,19 mg/m³, A3 Skin TLV STEL: 125 ppm, A3 - 542,74 mg/m³, A3 Skin

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:

Colourless liquid

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Odour:	Typical
pH:	N.A.
Melting point:	N.A.
Boiling point:	117-139 °C
Flash point:	14 °C
Solid/gas flammability:	N.A.
Autoignition temperature:	460 °C
Explosive properties:	LEL 1% - UEL 7,5%
Oxidizing properties:	NO
Vapour pressure:	N.A.
Relative density:	832 - 839 g/l @ 20°C
Solubility in water:	NO
Lipid solubility:	N.A.
Partition c. (n-octanol/H ₂ O):	N.A.
Vapour density (air= 1):	>1

10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions. Avoid high temperature.

Substances to avoid:

Keep away from oxidizing agents, sources of ignition and heat. The product could catch fire.

Hazardous decomposition products:

None.

See also Section 5

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth), nitrides and powerful reducing agents.

It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.

11. TOXICOLOGICAL INFORMATION

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

Set out below is the toxicological information relating to the main substances in the preparation.

4-methylpentan-2-one

LD50 (RAT) ORAL: 2080 MG/KG

xylene

LD50 (RAT) ORAL: 5000 MG/KG

ethylbenzene

LD50 (RAT) ORAL: 3500 MG/KG

LD50 (RAT) ORAL: 4710 MG/KG BW

12. ECOLOGICAL INFORMATION

Adopt good working practices, so that the product is not released into the environment.

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13. DISPOSAL CONSIDERATIONS

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Where applicable, refer to the following regulatory provisions : 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.



14. TRANSPORT INFORMATION

ADR-UN Number:	1263
ADR-Class:	3
ADR-HI number:	33
ADR-Shipping Name:	PAINT or PAINT RELATED MATERIAL
ADR-Packing Group:	II
ADR-S.P.:	640D
IATA-UN Number:	1263
IATA-Class:	3
IATA-Shipping Name:	PAINT or PAINT RELATED MATERIAL
IATA-Passenger Aircraft:	305
IATA-Cargo Aircraft:	307
IATA-Label:	Flamm. Liquid
IATA-Packing group:	II
IATA-S.P.:	A72
IATA-ERG:	3L
IMDG-Marine pollutant:	No
IMDG-UN Number:	1263
IMDG-Class:	3
IMDG-Shipping Name:	PAINT or PAINT RELATED MATERIAL
IMDG-Packing group:	II
IMDG-EmS:	F-E , <u>S-E</u>
IMDG-Storage category:	B

15. REGULATORY INFORMATION

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Council Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparations) and subsequent amendments. Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent). Commission Directive 2000/39/EC (Occupational exposure limit values). Regulation (EC) No 1907/2006 (REACH).

Symbols:

-  Xn Harmful
-  F+ Highly flammable

R Phrases:

- R11 Highly flammable.
- R20/21 Harmful by inhalation and in contact with skin.
- R36/37 Irritating to eyes and respiratory system.

S Phrases:

- S16 Keep away from sources of ignition - No smoking.

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S25 Avoid contact with eyes.
S29 Do not empty into drains.
S36/37 Wear suitable protective clothing and gloves.
S43 In case of fire, use fire-extinguisher by foam (fluoroproteinic or alcohol resistant foam), dust and CO₂.
S9 Keep container in a well-ventilated place.

Contents:

4-methylpentan-2-one
xylene

Where applicable, refer to the following regulatory provisions :

Directive 96/82/CE ('Activities linked to risks of serious accidents') and subsequent amendments.
Regulation (EC) nr 648/2004 (detergents).

The product fulfils the Directive 2002/95/EC (RoHS)
The product does not contain by recipe polycyclic aromatic hydrocarbons (PAH)
Raw materials of the product are pre-registered according to the Regulation (EC) No 1907/2006 (REACH)
The product does not contain by recipe substances listed in Art. 57 / Annex XIV of the Regulation (EC) No 1907/2006, from 9th of Oct. 2008 (SVHC)

16. OTHER INFORMATION

Text of R phrases referred to under heading 3:

R10 Flammable.
R11 Highly flammable.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R36/37 Irritating to eyes and respiratory system.
R38 Irritating to skin.
R66 Repeated exposure may cause skin dryness or cracking.

Paragraphs modified from the previous revision:

14. TRANSPORT INFORMATION
15. REGULATORY INFORMATION

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold
ACGIH - Threshold Limit Values - 2004 edition
ADR 2009

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The information contained herein is based on our state of knowledge at the above-specified date.
It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect
to the specific use intended.

This MSDS cancels and replaces any preceding release.
