

MATERIAL SAFETY DATA SHEET

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Revision nr : 1

Date : 21/10/2003

Supersedes : 0/0/0

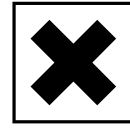
CHROMIROX

KK01

www.lisam.com



Highly flammable



Irritant

Producer

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1. Identification of the product

Identification of the product : CHROMIROX
Type of product : Paint.
Use : Professional users.
See product bulletin for detailed information.

2. Information on ingredients

This product is considered to be hazardous and contains hazardous components (Directive 1999/45/EC).

Substance name	Value(s)	CAS nr / EINECS nr / EC index	Symbol(s)	R-Phrase(s)
<u>Isopropyl acetate</u>	: 65 to 75 %	000108-21-4 / 203-561-1 / 607-024-00-6	F Xi	11-36-66-67
<u>n-butyl acetate</u>	: 5 to 10 %	000123-86-4 / 204-658-1 / 607-025-00-1		10-66-67
<u>Toluene</u>	: < 5 %	000108-88-3 / 203-625-9 / 601-021-00-3	F Xn	11-20
<u>Xylene</u>	: < 5 %	001330-20-7 / 215-535-7 / 601-022-00-9	Xn	10-20/21-38
<u>4-methylpentan-2-one</u>	: < 5 %	000108-10-1 / 203-550-1 / 606-004-00-4	Xn F	11-20-36/37-66
<u>Isobutanol</u>	: ca 1 %	000078-83-1 / 201-148-0 / 603-108-00-1	Xi	10-37/38-41-67
<u>Mixture of branched an linear C7- C9 alkyl 3-[3-(2H-benzotriazol-2-yl)- 5-(1,1-dimethylethyl)-4- hydroxyphenyl]propionates</u>	: ca 0.25 %	127519-17-9 / 407-000-3 / 607-281-00-4	N	51/53

3. Hazards identification

Risk Phrases : Highly flammable. Irritating to eyes. Repeated exposure may cause dryness or cracking. Vapours may cause drowsiness and dizziness.

Primary route of exposure : Inhalation.

Symptoms relating to use

- Inhalation : Cough. Headache.
- Skin contact : Redness, pain. Dermatitis.
- Eye contact : Damage to eyes.
- Ingestion : Abdominal pain, nausea.

Note : This product is considered to be hazardous and contains hazardous components (Directive 1999/45/EC).

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4. First aid measures

- First aid
- Inhalation : Assure fresh air breathing.
 - Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
 - Eye contact : Rinse immediately with plenty of water. Seek medical attention immediately.
 - Ingestion : DO NOT INDUCE VOMITING. Seek medical advice (show the label where possible).

5. Fire - fighting measures

- Flammable class : Highly flammable.
- Prevention : No naked lights. No smoking.
- Extinguishing media : Dry chemical. Foam. Carbon dioxide.
- Special exposure hazards : May form flammable vapour-air mixture. Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other toxic gases.
- Protection against fire : Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures : Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures

- Personal precautions : Equip cleanup crew with proper protection.
- Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
- After spillage and/or leakage : Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

7. Handling and storage

- General : No naked lights. No smoking.
- Precautions in handling and storage : Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures.
- Technical protective measures : Use only non-sparking tools. Ground well.
- Storage : Store in tightly closed, properly ventilated containers away from heat, sparks, open flame. Keep in fireproof place.
- Handling : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

8. Exposure controls / personal protection

- Personal protection
- Respiratory protection : Good ventilation of the workplace required. In case of insufficient ventilation, wear suitable respiratory equipment.
- Hand protection : Gloves.
- Eye protection : Chemical goggles or safety glasses.
- Ingestion : When using, do not eat, drink or smoke.
- Exposure controls
- Belgium (AR 11.03.02 - MB 14.03.02) : Xylenes. : 400 mg/m³
Toluene. : 191 mg/m³
isopropyl acetate : 1055 mg/m³
butyl acetate : 723 mg/m³
Isobutyl alcohol. : 154 mg/m³
4-methylpentan-2-one : 208 mg/m³
- U.S.A

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8. Exposure controls / personal protection (continued)

TLV-TWA [ppm] : Xylenes. : 100 ppm
Toluene. : 50 ppm
butyl acetate : 150 ppm
isopropyl acetate : 250 ppm
Isobutyl alcohol. : 50 ppm
4-methypentan-2-one : 50 ppm

9. Physical and chemical properties

Physical state : Liquid.
Colour : Grey.
Odour : Characteristic.
Density : 0,873 (20 °C)
Solubility in water : Insoluble.
Flash point [°C] : 4 °C
% Volatiles (by weight) : 822,29 g / l (Standard ASTM D 3960)
6,86 lb / US gal. (Standard ASTM D 3960)

10. Stability and reactivity

Hazardous decomposition products : None under normal conditions.

11. Toxicological information

Rat oral LD50 [mg/kg] : No data available.
Rabbit dermal LD50 [mg/kg] : No data available.
Rat inhalation LC50 [mg/l/4h] : No data available.

12. Ecological information

Ecological effects information : This product contains hazardous components for the aquatic environment.
LC50-96 Hour - fish [mg/l] : No data available.
48 Hour-EC50 - Daphnia magna [mg/l] : No data available.
EC50 72h Algae [mg/l] : No data available.

13. Disposal considerations

Disposal : Dispose of this material and its container at hazardous or special waste collection point.

14. Transport information

Hazard Label(s) : Flammable.
- UN No. : UN 1263 (Paint)
- ADR/RID : 3 II
Other : Special provision : 640 (D)

15. Regulatory information

Symbol(s) : Irritant.
Highly flammable.
R Phrase(s) : R11 - Highly flammable.
R36 - Irritating to eyes.
R66 - Repeated exposure may cause skin dryness or cracking.
R67 - Vapours may cause drowsiness and dizziness.

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15. Regulatory information (continued)

S Phrase(s) : S09 - Keep container in a well-ventilated place.
S24 - Avoid contact with skin.
S16 - Keep away from sources of ignition - No smoking.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33 - Take precautionary measures against static discharges.
S51 - Use only in well-ventilated areas.

16. Other information

R-phrases not concerned by the classification of the product : R10 - Flammable. R20/21 - Harmful by inhalation and in contact with skin. R37/38 - Irritating to respiratory system and skin. R41 - Risk of serious damage to eyes. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The contents and format of this MSDS are in accordance with EEC Commission Directive 2001/58/EC.

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