

Material Safety Data Sheet

Sasfroth [TM] 134

Version 1.04

Revision Date 01.12.2006



1. Identification of the substance/preparation and of the company/undertaking

Trade name Sasfroth [TM] 134

Synonyms Sasfroth 134

Company Hitech Chemicals

2. Composition/information on ingredients

hexan-1-ol

content: >= 30.00 - <= 35.00 %W/W

CAS-No. 111-27-3

Symbol(s) Xn

Index-No. 603-059-00-6

R-phrase(s) -R22

EC-No. 203-852-3

2-butoxyethanol; ethylene glycol monobutyl ether butyl cellosolve

content: >= 18.00 - <= 22.00 %W/W

CAS-No. 111-76-2

Symbol(s) Xn

Index-No. 603-014-00-0

R-phrase(s) -R20/21/22 -R36/38

EC-No. 203-905-0

Creosote

content: >= 18.00 - <= 22.00 %W/W

CAS-No. 8001-58-9

Symbol(s) T

Index-No. 648-101-00-4

R-phrase(s) -R45

EC-No. 232-287-5

Material Safety Data Sheet

Sasfroth [TM] 134

Version 1.04

Revision Date 01.12.2006



pentanol isomers, with the exception of those specified elsewhere in this Annex
content: ≥ 8.00 - ≤ 10.00 %W/W

CAS-No. 71-41-0
Symbol(s) Xn

Index-No. 603-006-00-7
R-phrases) -R10 -R20 -R37 -R66

EC-No. 200-752-1

For the full text of the R phrases mentioned in this Section, see Section 16.

3. Hazards identification

Identification of the risks

R20/22 Harmful by inhalation and if swallowed.

R45 May cause cancer.

R36/38 Irritating to eyes and skin.

R45 May cause cancer.

R20/22 Also harmful by inhalation and if swallowed.

R36/38 Irritating to eyes and skin.

4. First aid measures

General advice If you feel unwell, seek medical advice (show the label where possible).

Inhalation Move to fresh air in case of accidental inhalation of vapours. In case of shortness of breath, give oxygen. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.

Ingestion If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Notes to physician

Symptoms carcinogenic effects

Material Safety Data Sheet

Sasfroth [TM] 134

Version 1.04

Revision Date 01.12.2006



5. Fire-fighting measures

Suitable extinguishing media	Water spray, Dry powder, Foam
Specific hazards during fire fighting	Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit.
Further information	Standard procedure for chemical fires. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions	Use personal protective equipment. Do not breathe vapours or spray mist. Ensure adequate ventilation.
Environmental precautions	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). The material taken up must be disposed of in accordance with regulations.

7. Handling and storage

Handling

Safe handling advice	Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking.
Advice on protection against fire and explosion	Use explosion-proof equipment. Provide sufficient air exchange and/or exhaust in work rooms. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers	Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.
--	---

Material Safety Data Sheet

Sasfroth [TM] 134

Version 1.04

Revision Date 01.12.2006



8. Exposure controls / personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
2-BUTOXYETHANOL	TWA	98 mg/m ³	05 2003	EU Exposure Limit Values
	TWA	20 ppm	05 2003	EU Exposure Limit Values
	STEL	246 mg/m ³	05 2003	EU Exposure Limit Values
	STEL	50 ppm	05 2003	EU Exposure Limit Values

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Hand protection

gloves suitable for permanent contact:

Material: butyl-rubber

Break through time: 4 h

Material thickness: 0.5 mm

unsuitable gloves

Material: leather, nitrile rubber/nitrile latex, Polyvinylchloride, natural rubber/natural latex

Eye protection

Safety glasses with side-shields

Skin and body protection

protective suit, Safety shoes

Hygiene measures

Wash hands before breaks and immediately after handling the product.

Protective measures

Wear suitable protective equipment.

9. Physical and chemical properties

Form	liquid
Colour	dark brown
Odour	characteristic
pH	7
Melting point/range	-45 °C
Boiling point/range	166.22 °C
Flash point	58 °C; closed cup

Print Date 01.12.2006

10000002189

4/9

Material Safety Data Sheet

Sasfroth [TM] 134

Version 1.04

Revision Date 01.12.2006



Autoignition temperature	no data available
Lower explosion limit	2 %(V)
Upper explosion limit	10 %(V)
Vapour pressure	1.4 hPa
Density	0.92 g/cm ³ ; 20 °C
Bulk density	0.92 kg/m ³ ; 20 °C
Water solubility	partly soluble
Partition coefficient (n-octanol/water)	no data available
Solubility in other solvents	Medium: Diethylether; completely soluble
Viscosity, kinematic	4.1 mm ² /s; 40 °C
Relative vapour density	4.01

10. Stability and reactivity

Materials to avoid	Oxidizing agents, Reducing agents, Acids and bases
Hazardous decomposition products	No decomposition if stored normally.

11. Toxicological information

Acute oral toxicity	Hexanol: LD50 rat: 720 mg/kg; literature value Butyl glycol ether: LD50 rat: 470 mg/kg; literature value Butyl glycol ether: LD50 rabbit: 300 mg/kg; literature value
Acute inhalation toxicity	Butyl glycol ether: LC50 rat: 450 mg/l; literature value; 4 h Butyl glycol ether: LCLo rat: 18,000 mg/m ³ ; literature value; 7 h
Acute dermal toxicity	Hexanol: LD50 rabbit: 3,100 mg/kg; literature value Butyl glycol ether: LD50 rabbit: 220 mg/kg; literature value

12. Ecological information

Ecotoxicity effects

Print Date 01.12.2006

100000002189

5/9

Material Safety Data Sheet

Sasfroth [TM] 134

Version 1.04

Revision Date 01.12.2006



Toxicity to fish

Hexanol:

LC50 *Pimephales promelas*: 97.5 mg/l; 96 h; literature value

Butyl glycol ether:

LC50 *Poecilia reticulata*: 983 mg/l; 7 d; literature value

Butyl glycol ether:

LC50 Bluegill sunfish: 1,490 mg/l; 96 h; literature value

Butyl glycol ether:

LC50 *Pimephales promelas*: 2,137 mg/l; 96 h; literature value

Butyl glycol ether:

Oncorhynchus mykiss (rainbow trout): > 1,000 mg/l; 96 h; literature value

Toxicity to daphnia and other aquatic invertebrates.

Butyl glycol ether:

Daphnia magna: 1,720 mg/l; 24 h; literature value

13. Disposal considerations

Product

In accordance with local and national regulations.

Contaminated packaging

Packaging that cannot be cleaned must be disposed of in the same way as the material itself.

14. Transport information

ADR

UN-No.: 1993; Class: 3; Packaging group: III; F1; Description of the goods: FLAMMABLE LIQUID, N.O.S. (hexanols, xlenols)

RID

UN-No.: 1993; Class: 3; Packaging group: III; F1; Description of the goods: FLAMMABLE LIQUID, N.O.S. (hexanols, xlenols)

IMDG

UN-No.: 1993; Class: 3; EmS: F-E, S-E; Packaging group: III; Description of the goods: FLAMMABLE LIQUID, N.O.S. (hexanols, xlenols)

Material Safety Data Sheet

Sasfroth [TM] 134

Version 1.04

Revision Date 01.12.2006



ICAO/IATA

UN-No. : 1993; Class: 3; Packaging group: III; Description of the goods: Flammable liquid, n.o.s. (hexanols, xylanols)

15. Regulatory information

Labelling



Regulatory base 1999/45/EC

Regulatory base 1999/45/EC

Symbol(s) T: Toxic

Symbol(s) T: Toxic

R-phrase(s) R20/22: Harmful by inhalation and if swallowed.
R45: May cause cancer.
R36/38: Irritating to eyes and skin.

R-phrase(s) R45: May cause cancer.
R20/22: Also harmful by inhalation and if swallowed.
R36/38: Irritating to eyes and skin.

S-phrase(s) S53: Avoid exposure - obtain special instructions before use.

Print Date 01.12.2006

10000002189

7/9



Material Safety Data Sheet

Sasfroth [TM] 134

Version 1.04

Revision Date 01.12.2006

	<p>S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S35: This material and its container must be disposed of in a safe way. S36/37: Wear suitable protective clothing and gloves.</p>
S-phrase(s)	<p>S53: Avoid exposure - obtain special instructions before use. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S35: This material and its container must be disposed of in a safe way. S36/37: Wear suitable protective clothing and gloves.</p>
Special labelling of certain preparations	<p>Restricted to professional users.</p>
Hazardous components which must be listed on the label	<p>hexan-1-ol 2-butoxyethanol; ethylene glycol monobutyl ether butyl cellosolve Creosote pentanol isomers, with the exception of those specified elsewhere in this Annex</p>

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R10	Flammable.
R20	Harmful by inhalation.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R20/22	Also harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R45	May cause cancer.
R66	Repeated exposure may cause skin dryness or cracking.

This MSDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product, and in particular how to safely handle, use, store and transport the product in the workplace. Since we cannot anticipate or control conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review this MSDS in the context of how the user intends to handle, use, store or transport the product in the workplace and beyond, and communicate such information to all relevant parties. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.



Material Safety Data Sheet

Sasfroth [TM] 134

Version 1.04

Revision Date 01.12.2006

We shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given unless there has been gross negligence on our part. In such event our liability shall be limited only to direct damages suffered. Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request. All risk associated with the possession and application of the product passes on delivery.

The MSDS was created by:

The MSDS was approved by: