

Material Safety Data Sheet

SasfrothTM 20002

Version 1.04

Revision Date 21.06.2006



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

Trade name SasfrothTM 20002

Synonyms Sasfroth 20002

Company Hitech Chemicals

2. Composition/information on ingredients

Preparation on the base:

hexan-1-ol

content: 41.00 %W/W

CAS-No. 111-27-3

Symbol(s) Xn

Index-No. 603-059-00-6

R-phrase(s) -R22

EG-Nr.: 203-852-3

pentanol isomers, with the exception of those specified elsewhere in this Annex

content: 15.00 %W/W

CAS-No. 71-41-0

Symbol(s) Xn

Index-No. 603-006-00-7

R-phrase(s) -R10 -R20 -R37 -R66

EG-Nr.: 200-752-1

ethanol; ethyl alcohol

content: >= 2.00 - <= 4.00 %W/W

CAS-No. 64-17-5

Symbol(s) F

Index-No. 603-002-00-5

R-phrase(s) -R11

EG-Nr.: 200-578-6

Material Safety Data Sheet

Sasfroth™ 20002

Version 1.04

Revision Date 21.06.2006



crotonaldehyde; 2-butenal

content: >= 0.20 - <= 2.00 %W/W

CAS-No. 4170-30-3

Symbol(s) F, T+, N

Index-No. 605-009-00-9

EG-Nr.: 224-030-0

R-phrases(s) -R11 -R24/25 -R26 -R37/38 -R41 -R48/22 -R50
-R68

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

3. Hazards identification

Identification of the risks

R10	Flammable.
R22	Harmful if swallowed.
R23	Toxic by inhalation.
R68	Possible risk of irreversible effects.

4. First aid measures

General advice	Danger of very serious irreversible effects
Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, seek medical advice immediately.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.
Ingestion	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

5. Fire-fighting measures

Suitable extinguishing media	Alcohol-resistant foam, Dry chemical, Water spray
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	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Material Safety Data Sheet

Sasfroth™ 20002

Version 1.04

Revision Date 21.06.2006



Further information Cool containers / tanks with water spray.

6. Accidental release measures

Personal precautions Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.

Environmental precautions Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material and dispose of as hazardous waste.

Additional advice Never return spills in original containers for re-use.

7. Handling and storage

Handling

Safe handling advice Do not breathe vapours or spray mist. Wear personal protective equipment.

Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment.

Storage

Requirements for storage areas and containers Keep containers tightly closed in a cool, well-ventilated place.

8. Exposure controls / personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

Engineering measures

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

Personal protective equipment

Respiratory protection Suitable respiratory equipment:

Hand protection gloves suitable for permanent contact:
Material: butyl-rubber
Break through time: 4 h
Material thickness: 0.5 mm

Material Safety Data Sheet

Sasfroth™ 20002

Version 1.04

Revision Date 21.06.2006



	<i>unsuitable gloves</i> <i>Material: leather, nitrile rubber/nitrile latex, Polyvinylchloride, natural rubber/natural latex</i>
Eye protection	<i>Safety glasses with side-shields</i>
Skin and body protection	<i>protective suit, Safety shoes</i>
Hygiene measures	<i>Wash hands before breaks and immediately after handling the product.</i>
Protective measures	<i>Wear suitable protective equipment.</i>

9. Physical and chemical properties

Form	<i>liquid</i>
state of matter	<i>liquid; at 1,013 hPa</i>
Colour	<i>light red</i>
Odour	<i>pungent</i>
pH	<i>no data available</i>
Melting point/range	<i>-30 °C</i>
Boiling point/range	<i>93 °C</i>
Flash point	<i>38 °C; closed cup</i>
Autoignition temperature	<i>243 °C</i>
Lower explosion limit	<i>no data available</i>
Upper explosion limit	<i>no data available</i>
Density	<i>0.872 g/cm³; 20 °C</i>
Bulk density	<i>0.872 kg/m³; 20 °C</i>
Water solubility	<i>insoluble, immiscible</i>
Partition coefficient (n-octanol/water)	<i>no data available</i>
Solubility in other solvents	<i>Medium: Alcohol</i>
Viscosity, kinematic	<i>2.32 mm²/s</i>
Relative vapour density	<i>no data available</i>

10. Stability and reactivity

Materials to avoid	<i>Oxidizing agents, Acids and bases</i>
Hazardous decomposition products	<i>Carbon oxides</i>

Print Date 21.07.2006

10000003257

4/7

Material Safety Data Sheet

Sasfroth™ 20002

Version 1.04

Revision Date 21.06.2006



11. Toxicological information

Acute oral toxicity	Hexanol: LD50 rat: 720 mg/kg; literature value Crotonaldehyde: LD50 rat: 80 mg/kg; literature value
Acute dermal toxicity	Hexanol: LD50 rabbit: 3,100 mg/kg; literature value Crotonaldehyde: LD50 rabbit: 447 mg/kg; literature value

12. Ecological information

Ecotoxicity effects

Toxicity to fish	Hexanol: LC50 Pimephales promelas: 97.5 mg/l; 96 h; literature value
-------------------------	---

13. Disposal considerations

Product	Dispose of in accordance with local regulations.
Contaminated packaging	Store containers and offer for recycling of material when in accordance with the local regulations.

14. Transport information

ADR	UN-No.: 1992; Class: 3, (6.1); Packaging group: III; FT1; Description of the goods: FLAMMABLE LIQUID, TOXIC, N.O.S. (hexanols, crotonaldehyde)
RID	UN-No.: 1992; Class: 3, (6.1); Packaging group: III; FT1; Description of the goods: FLAMMABLE LIQUID, TOXIC, N.O.S. (hexanols, crotonaldehyde)
ADNR	UN-No.: 1992; Class: 3, (6.1); Packaging group: III; FT1; Description of the goods: FLAMMABLE LIQUID, TOXIC, N.O.S. (hexanols, crotonaldehyde)
IMDG	UN-No.: 1992; Class: 3, (6.1); EmS: F-E, S-D; Packaging group: III; Description of the goods: FLAMMABLE LIQUID, TOXIC, N.O.S. (hexanols, crotonaldehyde)

Material Safety Data Sheet

Sasfroth™ 20002

Version 1.04

Revision Date 21.06.2006



ICAO/IATA

UN-No. : 1992; Class: 3, (6.1); Packaging group: III; Description of the goods: Flammable liquid, toxic, n.o.s. (hexanols, crotonaldehyde)

15. Regulatory information

Labelling



Regulatory base

1999/45/EC

Symbol(s)

T: Toxic

R-phrase(s)

R10: Flammable.
R22: Harmful if swallowed.
R23: Toxic by inhalation.
R68: Possible risk of irreversible effects.

S-phrase(s)

S35: This material and its container must be disposed of in a safe way.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S24/25: Avoid contact with skin and eyes.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

Hazardous components which must be listed on the label

hexan-1-ol

crotonaldehyde; 2-butenal

16. Other information

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



Material Safety Data Sheet

Sasfroth™ 20002

Version 1.04

Revision Date 21.06.2006

R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R22	Harmful if swallowed.
R23	Toxic by inhalation.
R24/25	Toxic in contact with skin and if swallowed.
R26	Very toxic by inhalation.
R37	Irritating to respiratory system.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50	Very toxic to aquatic organisms.
R66	Repeated exposure may cause skin dryness or cracking.
R68	Possible risk of irreversible effects.

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.

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: