

MATERIAL SAFETY DATA SHEET

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1 - PRODUCT AND COMPANY IDENTIFICATION.

Product name:	ORCHIDEE SC-1
Product code:	901240 +
Type of product or use:	Synthetic film forming foam
Supplier:	Producer
Name:	ORCHIDEE S.A.S
Address:	72, rue Caroline FOLLET 80160 CONTY - FRANCE
Telephone:	+ 33 (0)3 22 41 30 89
Telefax:	+ 33 (0)3 22 41 32 88
Emergency telephone number(s):	ORFILA (PARIS-FRANCE) : + 33 (0)1 45 42 59 59

2 - COMPOSITION/INFORMATION ON INGREDIENTS.

>> PREPARATION.

INGREDIENT:	C.A.S. NO.	EU Haz. & Risk symbol	PERCENT
WATER	7732-18-5		10.0 - 30.0
DIETHYLENE GLYCOL BUTYL ETHER	112-34-5	Xi ; R36	10.0 - 30.0
ETHANOL	64-17-5	R11 ; R36	0 - 9.0
AMPHOTERIC FLUORINATED POLYMER	34455-29-3		1.0 - 10.0
ALKYL SULFATE SALT		Xi ; R38 ; R41	10.0 - 40.0

Hazardous components: This product contains the following toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR Part 372: DIETHYLENE GLYCOL BUTYL ETHER

3 - HAZARDS IDENTIFICATION.

>> MAIN HAZARDS.

Health effects:	Irritating to eyes and skin.
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4 - FIRST-AID MEASURES.

Information in case of :

- Skin contact:	Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs occur, call a medical doctor. Wash contaminating clothing before reuse and dispose of contaminated shoes.
- Eye contact:	Immediately flush eyes with large amounts of water. Get immediate medical attention.

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- Inhalation: If signs or symptoms occur, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.
- Ingestion: If swallowed, call a medical doctor immediately. Only induce vomiting at the instruction of a medical doctor. Never give anything to an unconscious person.
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5 - FIRE-FIGHTING MEASURES.

>> EXTINGUISHING MEDIA.

Suitable extinguishing media:

Product is fire-extinguishing agent.

Hazardous decomposition:

At high temperature: concentrate gives toxic products.

Thermal decomposition of usage concentrations does not present a hazard.

Fire-fighting procedures :

Not applicable.

6 - ACCIDENTAL RELEASE MEASURES.

Personal precautions:

Observe precautions from other sections.

Methods for cleaning-up:

Ventilate area.

Contain spill. Cover with absorbent material.

Collect spilled material.

Clean up residue with water.

Place in a closed container.

7 - HANDLING AND STORAGE.

Precautions for safe handling:

Avoid the contact with skin and eyes.

Wear safety clothes.

While handling, do not eat, drink or smoke.

Wash contaminated clothes separately.

After handling, wash your hands with water and soap.

Precautions for safe storage:

Store away from areas where product may come into contact with food or pharmaceuticals.

Store at temperatures above -13°C and below 60°C.

Keep container closed when not in use.

Store and cover in a shade. Store away from water and humidity.

Incompatible with aluminium.

Keep in original packaging.

Ventilation:

Keep container in a well-ventilated area.

Fire prevention:

Not applicable.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION.

>> PERSONAL PROTECTION EQUIPMENT.

- Eye protection:

- Avoid eye contact with vapour, spray, or mist. Wear vented goggles.

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| - Hand Protection: | - Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) is recommended: Butyl rubber. |
| - Skin Protection: | - Avoid skin contact. |
| - Respiratory Protection: | - Avoid inhalation of airborne material. Select one of the following respirators based on airborne concentration of contaminants and in accordance with national regulations: Half-mask organic vapour respirator with dust/mist prefilter. |
| - Ingestion: | - Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Wash hands after handling and before eating. |
| - Recommended Ventilation: | - If exhaust ventilation is not adequate, use appropriate respiratory protection. Provide ventilation adequate to control vapour concentrations below recommended exposure limits and/or control spray or mist. |
| - Exposure limits: | - DIETHYLENE GLYCOL BUTYL ETHER (112-34-5) CMRG TWA Exposure Limit: 35 ppm
ETHANOL (67-17-5) TLV TWA Exposure Limit: 1880 mg/m3 |
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9 - PHYSICAL AND CHEMICAL PROPERTIES.

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|--------------------------------|-------------------------------------|
| - Appearance and Odour: | Clear, colored liquid. |
| - PH: | 7.0 – 8.5 |
| - Boiling point/boiling range: | 95 C (Typical) |
| - Melting point/melting range: | -15°C |
| - Flash point: | None (Setaflash CC) |
| - Autoflammability: | Not applicable |
| - Vapour pressure: | Approximately 17.4 mmHg Calc @25°C |
| - Water Solubility: | Miscible |
| - Water Solubility: | Miscible |
| - Specific gravity: | 1.05 +/- 0.02 g/cm3 Water =1 |
| - Vapour density: | Approximately 0.77 Air=1 Calc @25°C |
| - Volatile organic compounds: | N/A |
| - Evaporation rate: | Less than 1 BuOAc=1 |
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10 - STABILITY AND REACTIVITY.

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|-----------------------------|--|
| Stability : | Stable. |
| - Materials to avoid: | Not applicable. |
| - Hazardous decomposition : | Stable. Hazardous polymerisation will not occur. |
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11 - TOXICOLOGICAL INFORMATION.

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|---|---|
| - Effects from Eye Contact: | - Minimal Eye Irritation: signs/symptoms disappear after 21 days with no damage. |
| - Effects from Skin Contact: | - Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching. Symptoms disappear after 21 days with no damage. |
| - Prolonged or repeated exposure may cause: | - Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching. |

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- Effects from Inhalation: - No effect known.

- Effects from Ingestion: - Not applicable.

- Other Effects and Information: - None

12 - ECOLOGICAL INFORMATION.

Persistence/Biodegradability: This product does not contain any ingredients reportable as not biodegradable.

Other Effects and Information:

BIODEGRADATION :

14 Day (OECD 301 A-F) BOD14 >= 55%

20 Day (OECD 301 A-F) BOD20 >= 65%

28 Day (OECD 301 A-F) BOD28 >= 90%

AQUATIC TOXICITY :

LD50 Rats > 2000 mg/Kg ;

Vibrio fischeri NRRL-B-11177 30-min EC20 >1000 mg/L , 30-min EC50 >1000 mg/L

Brachydanio rerio OECD 203 24-hr LC50 > 1000 mg/L , 24-hr LC100 > 1000 mg/L

13 - DISPOSAL CONSIDERATIONS.

Special Instructions:

Avoid discharge to a wastewater treatment system.

Reduce discharge rate if foaming occurs.

Larger quantities may adversely affect biological wastewater treatment systems. Incinerate large quantities in an industrial or commercial incinerator.

Since regulations vary, consult applicable regulations or authorities before disposal.

14 - TRANSPORTATION INFORMATION.

UN NUMBER: Not restricted for transportation

ADR/RID CLASSIFICATION: Not regulated

ICAO/IATA CLASSIFICATION: Not regulated

15 - REGULATORY INFORMATION.

EC CLASSIFICATION/ LABELLING (*)

- DANGEROUS PREPARATIONS (*)

D.1999/45/EC (*)

R-Phrase

R36 Irritating to eyes and respiratory system.

R38 Irritating to skin.

S-Phrase

S26_ In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36/37/39_ Wear suitable protective clothing, gloves and eye/face protection (*)

- INVENTORIES (*)

EINECS (EU) : conforms (*)

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16 - OTHER INFORMATION.

Regulatory Information:

Since regulations vary, consult applicable regulations or authorities before disposal. In the event of an uncontrolled release of this material, the user should determine if the release qualifies as a reportable quantity.

NOTE.

THIS SAFETY DATA SHEET COMPLIES WITH THE 2001/58/CE EUROPEAN DIRECTIVE OF THE COMMISSION DATED 07/27/2001.

The information provided is based upon our best knowledge at the time that this safety data sheet was published. The information is believed to be accurate and is given in all good faith. The attention of users is drawn to the possibility of creating other hazards when the product is used for purposes other than that for which it is recommended. In such cases a complete reassessment should be made by the user.

This safety data sheet should only be used and reproduced in order that the necessary measures may be taken in relation to the protection of health and safety at work so as to the protection of the environment. The references to the legislative, regulatory and codes of practice documents must not be considered as exhaustive.

It is the responsibility of handlers of the product to pass on the totality of the information contained within this document to any subsequent persons who will come into contact with, handle or use the product in any way.

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