



Material Safety Data Sheet according to 91/155/EC

Product name : GRATCH ULTRA
Revision : 19-03-2002 **Version :** 2.0.0
Print date : 13-2-03

01. Identification of substance, preparation and company

Product name: GRATCH ULTRA
Manufacturer/Supplier: GRATCH Company
Street/P.O.Box: P.O. Box 7034
Country code/Postal code/Town/City: NL – 5980 AA PANNINGEN
Telephone / Telefax: +31 77 465 1095 / +31 77 465 1096
Emergency information: +31 77 465 1095

02. Composition/information on ingredients

Substances presenting a health hazard within the meaning of the Dangerous Substances Directive 67/548/EC:

Hazardous components

2-(2-BUTOXYETHOXY)ETHANOL ; CAS-No. : 112-34-5

Percentage : 50 - 100 %

Classification : Xi ; R 36

BUTYLGLYCOL ACETATE ; CAS-No. : 112-07-2

Percentage : 10 - 25 %

Classification : Xn ; R 20/21

03. Hazards identification

Hazard designation

Irritating to eyes

04. First-aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. For further information refer to "specifications about toxicology".

After inhalation

Move the casualty into fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Don't supply food or beverage, If unconscious place in recovery position and seek medical advice.

After skin contact

Immediately remove all contaminated clothing. Wash with soap and water and rinse. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses, keep eyelids open. Rinse with plenty of water (10 - 15 min.). Call a physician.

After ingestion

If swallowed obtain immediate medical attention. Do not induce vomiting. Keep patient at rest.



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05. Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

Water jet.

Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

Fire will produce dense black smoke. Exposure to decomposing products may cause a health hazard.

Special protective equipment

Appropriate breathing equipment may be required.

Additional information

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

06. Accidental release measures

Personal precautions

Remove ignition sources. Provide for sufficient ventilation. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Do not empty into drains or water courses. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

Methods for cleaning up/collecting

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents.

07. Handling and storage

Information for safe handling

Prevent the formation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Avoid contact with skin and eyes. Do not breathe vapour or spray. Do not smoke, eat or drink in places where this product is used. For personal protection see section 8. Comply with the health and safety at work laws.

Information about protection against explosions and fires

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Preparation may charge electrostatically; always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used.



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Requirements to be met by storerooms and containers

Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Information about separation of incompatible products

Keep away from oxidizing agents, and from strong alkaline and strong acid materials.

Further information about storage conditions

Store in accordance with the local regulations. Always keep in containers of same material as the original one. See also instructions on the label. Store between 0 and 40 °C in a dry, well-ventilated area, away from sources of heat and direct sunlight. Avoid contact with sources of ignition.

08. Exposure controls and personal protection

Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Components with critical values that require monitoring at the workplace (exposure limits)

2-(2-BUTOXYETHOXY)ETHANOL ; CAS-No. : 112-34-5

Specification : Maximum limit in the atmosphere at the workplace (NL)
Parameter : 8 hour value
Value : 50 mg/m³ / 9 ppm
Remarks : H
Version date : 01-01-2000

BUTYLGLYCOL ACETATE ; CAS-No. : 112-07-2

Specification : Short term exposure limit (EC)
Value : 50 ppm / 333 mg/m³
Remarks : H
Version date : 08-06-2000

Specification : threshold limit value (EC)
Value : 20 ppm / 133 mg/m³
Remarks : H
Version date : 08-06-2000

Specification : Maximum limit in the atmosphere at the workplace (NL)
Parameter : 8 hour value
Value : 135 mg/m³ / 20 ppm
Remarks : H
Version date : 01-01-2001

Specification : Maximum limit in the atmosphere at the workplace (NL)
Parameter : 15 minutes value
Value : 333 mg/m³ / 50 ppm



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Remarks : H
Version date : 01-01-2001

Personal protective equipment

Respiratory protection

If workplace limits are exceeded, a gas mask approved for this purpose must be worn.

Hand protection

Solvent-resistant protective gloves must be worn. Barrier creams may help to protect the exposed areas of the skin. They should however not be applied once exposure has occurred.

Eye protection

Use tightly fitting safety glasses.

Body protection

Personel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

09. Physical and chemical properties

Relevant safety data

Physical state :	liquid
Colour:	Colourless
Odour:	characteristic
Flash point :	97,4 °C
Lower explosion limit :	0,9 % b.v.
Upper explosion limit :	8,5 % b.v.
Density : (20 °C)	0,996 - 1,036 g/cm ³
Solubility in water : (20 °C)	50,7 % b.w.
Viscosity: (20 °C)	60000 - 80000 mPa.s Brookfield
Solids content :	2,3 - 4,3 % b.w.

10. Stability and reactivity

Conditions to avoid

Stable under recommended storage and handling conditions (see section 7).

Materials to avoid

Keep away from oxidizing agents, strong alkaline and strong acid materials in order to avoid exothermic reactions.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.



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11. Toxicological information

There are no data available on the preparation itself. Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the product may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. If the liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Do not empty into water courses or drains. Due to the lack of directives there are no environmental risks of preparations available.

13. Disposal considerations

Do not empty into water courses or drains. In accordance with local official regulations empty containers have to be discharged to waste collectors.

14. Transport information

Land transport ADR/RID and GGVS/GGVE (2000)

Classification

Class : -

Land transport ADR/RID and GGVS/GGVE (2001)

15. Regulatory information

Classification according to EEC directives

Danger symbol and danger designation



Xi ; Irritant

R-phrases

36 Irritating to eyes

S-phrases

51 Use only in well-ventilated areas.

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



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16. Other information

The details in this material safety data sheet satisfy national and EU legislation. We have no knowledge or control over the user's working conditions however. The user is responsible for the observance of all required statutory provisions.

Further information

Relevant changes

08. Components with critical values that require monitoring at the workplace (exposure limits)

R-Phrases of components

20/21	Harmful by inhalation and in contact with skin
36	Irritating to eyes

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.
