

MATERIAL SAFETY DATA SHEET

MSDS

Last changed: 2008-02-04

Internal no.:

Replaces date: 2005-12-02

AGS 3+ GEL, Graffiti Remover

1. PRODUCT AND COMPANY



TRADE NAME	AGS 3+ GEL, Graffiti Remover
GROUP NAME	AGS
ART-NO	3650
Producer/Importer	TRION TENSID AB
Address	Svederusgatan 1-3
Zipcode & City	754 50 UPPSALA
Telephone	+46 18 15 61 90
Fax	+46 18 69 66 27
Contactperson	William Stomilovic
Responsible	Robert Ferm
Issued by	William Stomilovic

2. COMPOSITION OF PRODUCT



No	Ingredients name	CAS-NO	Conc.(weight%)	Rest-list	Classification
1	2-Butoxyethanole	111-76-2	10-30%		Xi,20/21/22, 36/38
2	gamma-Butyrolacton	96-48-0	10-30%		Xn,22-36
3	Aliphatic, naphthenic, aromatic hydrocarbons		10-30%		Xn 65
Legend					
T+=Very toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritant, IK=No classification required, E=Explosive, O=Oxidising, F+=Extremely flammable, F=Very flammable, Fo=Flammable, N=Dang. to the environment, Mut=Genetoxic, Sens=Sensitizing, Carc=Cancerogen, Repr=Causes birth defects					

INGREDIENT COMMENTS

Other components does not contribute to the classification and are therefore not in the MSDS.

3. HAZARD IDENTIFICATION



May cause lung damage if swallowed. Irritating to eyes and skin.

4. FIRST AID



GENERAL

Contact a physician if necessary and show this safety data sheet.

INHALATION

Move to fresh air.

SKIN CONTACT

Wash skin thoroughly with soap and water.

EYE CONTACT

Flush immediately with plenty of water, also under the eyelids. In case of pain/redness - get medical advice.

INGESTION

Give 1-2 glasses of water or preferably milk to drink. Do NOT induce vomiting.

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5. FIRE FIGHTING MEASURES

PROPER FIRE FIGHTING EQUIPMENT

CO2, dry chemical, water fog.

IMPROPER FIRE FIGHTING EQUIPMENT

Do not use water jet.

FIRE AND EXPLOSION HAZARDS

May ignite at high temperatures.

PERSONAL PROTECTION WHEN FIRE FIGHTING

Appropriate respiratory protection is necessary.

OTHER INFORMATION

Containers close to fire should be removed immediately or cooled with water.

6. ACCIDENTAL RELEASE MEASURES

SAFETY MEASUREMENTS TO PROTECT PERSONS

Use protective equipment if necessary.

SAFETY MEASUREMENTS TO PROTECT ENVIRONMENT

Dike with sand, earth etc. and collect in appropriate containers according to national regulations.

PROPER METHODS FOR DAMAGE LIMITATION AND CLEAN UP

Absorb with vermiculite, dry sand or earth and transfer to containers. After cleaning, flush away traces with water.

OTHER INFORMATION

Be aware of possible slippery surface.

7. HANDLING AND STORAGE

HANDLING

Keep away from ignition sources. May attack some plastics, rubber and paint.

HANDLING ADVICE

Use containers made of suitable plastic material.

STORAGE

Keep container tightly closed. Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Ingredients name	CAS-no	TLV value	TLV Year
2-butoxyethanole	11-76-2	10 ppm	2002

EXPOSURE CONTROL

Arrange working conditions and methods to avoid direct contact with the product.

RESP. PROTECTION

Use respiratory protection when handling the product in confined areas. Gas cartridge A (organic substances, brown). Always use a NIOSH-approved respirator.

EYE PROTECTION

Wear approved goggles or face shield.

HAND PROTECTION

Always use gloves when there is a possibility of direct contact with the product. butyl rubber or nitrile rubber. Natural rubber (latex).

SKIN PROTECTION

Wear suitable protective clothing

OTHER INFORMATION

Remove contaminated clothing immediately and wash contaminated skin as soon as possible.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Viscous liquid.		
Colour	Bluish.		
Odour	Slightly. Solvent.		
Solubility	miscible with most organic solvents		
Melting point/range	-20°C	Density	980 kg/m ³
Expl. limit LEL-UEL, %--%:		Solubility in water	~50%
Vapour pressure		Saturation conc.	
Decomposition temp.		Rel. density sat. air (air=1)	
pH Solution 10%	Approximately 7	Boiling point/range	
Flash point	90-100°C	pH concentrate	N/A
Molecular weight		Viscosity	
Ignition temp		Smelling limits lo-hi	
Rel. vapor density (air=1)		Rel. evap. velocity	
Air reactive		Water reactive	

10. STABILITY AND REACTIVITY

STABILITY

No particular stability concerns.

MATERIALS TO AVOID

Do not mix with strong alkaline products.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire causes formation of: Carbon monoxide (CO). Carbon dioxide (CO₂).

OTHER INFORMATION

Stable at normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral tox.	LD 50 (oral rat) for gamma-butyrolacton	1580 mg/kg
Acute derm. tox.		
Inh. toxicity		

GENERAL

There is little health hazard associated with the normal use of this product.

INHALATION

High concentrations may cause: Nausea, vomiting, headache.

SKIN CONTACT

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to the product's defatting properties.

EYE CONTACT

Irritating. May cause intense discomfort, lacrimation and temporary vision impairment.

INGESTION

Nausea, vomiting, diarrhoea, abdominal pains. Aspiration of the product into the lungs is unlikely due to its high viscosity.

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12. ECOLOGICAL INFORMATION

MOBILITY

Emulsifies in water.

BREAKDOWN

Expected to be readily biodegradable. The raw materials are readily biodegradable.

ACCUMULATION

Does not bioaccumulate significantly.

ECOTOXICITY.

Exhibits low toxicity to water organisms. LC50/96h/goldfish =220-460-mg/l for gamma-Butyrolactone.

OTHER INFORMATION

Do not discharge product to sewer or drains

13. DISPOSAL

For larger quantities: Incinerate in an approved industrial incineration facility. Comply with all local and national regulations. Small quantities can be flushed to sea or drain with large amounts of water. Preparation/substance is biodegradable.

14. TRANSPORT INFORMATION

The product is not regarded as dangerous goods according to ADR and IMDG.

15. REGULATORY INFORMATION

Classification



COMPOSITION

2-butoxyethanole (10-30%), gamma-Butyrolacton (10-30%), aliphatic, naphthenic and aromatic hydrocarbons (10-30%).

R-PHRASES

R-65 May cause lung damage if swallowed. R-36/38 Irritating to eyes and skin.

S-PHRASES

S-24/25 Avoid contact with skin and eyes. S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S-38 In case of insufficient ventilation, wear suitable respiratory equipment. S-36/39 Wear suitable protective clothing and eye/face protection.

16. OTHER INFORMATION

ISSUED: 2008-02-04

VENDOR NOTES

The safety data sheet has been prepared on the basis of information given by our suppliers and our present knowledge. Information is based on our present knowledge and is therefore not a guarantee of specific properties.

Explanations to risk phrases in chapter 2.

R 20/21/22 Harmful by inhalation, in contact with skin, if swallowed.
R36/38 Irritating to eyes and skin.
R 65 May cause lung damage if swallowed.