

# MATERIAL SAFETY DATA SHEET

## MSDS

Last changed: 2008-03-05

Internal no.:

Replaces date: 2007-03-14

### AKS 221 GEL, Graffiti Remover

#### 1. PRODUCT AND COMPANY

<b>TRADE NAME</b>	AKS 221 GEL, Graffiti Remover
<b>GROUP NAME</b>	AKS
<b>ART-NO</b>	3625
<b>Producer/Importer</b>	TRION TENSID AB
<b>Address</b>	Svederusgatan 1-3
<b>Zipcode &amp; City</b>	754 50 UPPSALA, SWEDEN
<b>Telephone</b>	+46 18 15 61 90
<b>Fax</b>	+46 18 69 66 27
<b>Contact person</b>	William Stomilovic
<b>Responsible</b>	Robert Ferm
<b>Issued by</b>	William Stomilovic

#### 2. COMPOSITION OF PRODUCT

No	Ingredients name	CAS-NO	Conc.(weight%)	Rest-list	Classification
1	gamma-Butyrolacton	96-48-0	5-10%		Xn,22-36
2	2-Butoxyethanol	111-76-0	<7%		Xn,Xi; R20/21/22-36/38
3	Triethanolamine	102-71-6	<3%		Xi; R36/38
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=Genotoxic, Sens=Sensitizing, Carc=Carcinogenic, Repr=Causes birth defects				

#### INGREDIENT COMMENTS

Other components are not classified and are therefore not in the MSDS.

#### 3. HAZARD IDENTIFICATION

Causes some irritation to eyes, skin and respiratory tract. The product does not require fire or health hazard labelling.

#### 4. FIRST AID

##### GENERAL

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

##### INHALATION

Low inhalation risk. Fresh air.

##### SKIN CONTACT

Wash with water and soap as a precaution.

##### EYE CONTACT

Flush immediately with a soft jet of lukewarm water, also under the eyelids. Get medical advice if discomfort continues.

##### INGESTION

Avoid vomiting if possible. Give 1-2 glasses of water or preferably milk to drink. To hospital if strong cough or vomiting occurs, or if larger quantity has been ingested.

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#### 5. FIRE FIGHTING MEASURES

##### PROPER FIRE FIGHTING EQUIPMENT

CO2, dry chemical, water fog.

##### IMPROPER FIRE FIGHTING EQUIPMENT

Do not use a solid water stream as it may scatter and spread fire.

##### FIRE AND EXPLOSION HAZARDS

Non-flammable. May ignite if heated over flash point.

##### 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 personal protective equipment.

##### SAFETY MEASUREMENTS TO PROTECT ENVIRONMENT

Dike with absorbent material and prevent spreading and release to water sources and sewers. Prevent discharge of significant quantities to drains. The preparation/substance is biodegradable. Do not allow runoff water to contaminate water sources, rivers etc.

##### PROPER METHODS FOR DAMAGE LIMITATION AND CLEAN UP

After cleaning, flush away traces with water.

#### 7. HANDLING AND STORAGE

##### HANDLING

No information on specific properties or hazards.

##### HANDLING ADVICE

Do not mix with bases. Arrange working conditions to avoid prolonged exposure.

##### STORAGE

Keep container tightly closed.

#### 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

##### EXPOSURE CONTROL

Avoid contact with skin and eyes.

##### RESP. PROTECTION

Normally not necessary due to low evaporation.

##### EYE PROTECTION

Wear goggles/face shield.

##### HAND PROTECTION

Always use gloves when there is a possibility of direct contact with the product. Use chemically resistant protective gloves for prolonged or repeated contact. Butyl rubber. Natural rubber (latex).

##### SKIN PROTECTION

Wear suitable protective clothing

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES



<b>Form</b>	Viscous liquid.		
<b>Colour</b>	Yellowish.		
<b>Odour</b>	Slight.		
<b>Solubility</b>	miscible with most organic solvents		
<b>Melting point/range</b>	-10°C	<b>Density</b>	1050 kg/m <sup>3</sup>
<b>Expl. limit LEL-UEL, %--%:</b>		<b>Solubility in water</b>	~50%
<b>Vapour pressure</b>		<b>Saturation conc.</b>	
<b>Decomposition temp.</b>		<b>Rel. density sat. air (air=1)</b>	
<b>pH Solution</b>		<b>Boiling point/range</b>	>200°C
<b>Flash point</b>	97°C	<b>pH concentrate</b>	N/A
<b>Molecular weight</b>		<b>Viscosity</b>	43000 cP
<b>Ignition temp</b>	N/A	<b>Smelling limits lo-hi</b>	
<b>Rel. vapour density (air=1)</b>		<b>Rel. evap. velocity</b>	
<b>Air reactive</b>		<b>Water reactive</b>	

#### 10. STABILITY AND REACTIVITY



##### STABILITY

No particular stability concerns.

##### MATERIALS TO AVOID

The product may react exothermically with strong alkaline.

##### HAZARDOUS DECOMPOSITION PRODUCTS

Combustion causes formation of: Carbon monoxide (CO).Carbon dioxide (CO<sub>2</sub>).

#### 11. TOXICOLOGICAL INFORMATION



##### OTHER TOX. INFORMATION

LD50/oral/rat = 1580 mg/kg for gamma-Butyrolacton. 470-3000 mg/kg for 2-Butoxyethanol. > 5000 mg/kg for Triethanolamin.

##### GENERAL

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

##### INHALATION

Significant amounts may cause nausea and discomfort.

##### SKIN CONTACT

Prolonged skin contact may cause skin irritation. Solvents may defat the skin.

##### EYE CONTACT

May cause intense discomfort, lacrimation and temporary vision impairment.

##### INGESTION

May cause discomfort if swallowed. Nausea, vomiting may occur spontaneously.

#### 12. ECOLOGICAL INFORMATION



##### MOBILITY

Emulsifies in water.

##### BREAKDOWN

Readily biodegradable according to OECD-test 302B.

##### ACCUMULATION

Does not bioaccumulate significantly.

##### ECOTOXITY

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

LC50/96h/fish (Pimephales promelas) = 1900 mg/l for 2-Butoxyethanol. LC50/96h/fish(Pimephales promelas) = 1800 mg/l for Triethanolamine.

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#### 13. DISPOSAL



Comply with all local and national regulations. For larger quantities: Incinerate in an approved industrial incineration facility. Product residues, which cannot be reused, must be treated as hazardous waste.

#### 14. TRANSPORT INFORMATION



The product is **not** dangerous according to ADR or IMDG.

#### 15. REGULATORY INFORMATION



##### Classification

##### COMPOSITION

gamma-Butyrolacton (5-10%), 2-Butoxyethanol (<7%), Triethanolamine (<3%).

##### S-PHRASES

S-24/25 Avoid contact with skin and eyes. S-37/39 Wear suitable gloves and eye/face protection.

#### 16. OTHER INFORMATION



**ISSUED:** 2008-03-05

##### 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 of risk phrases in chapter 2.

Xn 22-36	Harmful if swallowed. Irritating to eyes.
Xi 36/38	Irritating to eyes and skin.
Xn, Xi, 20/21/22-36/38	Harmful by inhalation, in contact with skin, if swallowed. Irritating to eyes and skin.