

# Safety Data Sheet

Manufacturer: Soft99 Corporation  
 Address: 6-5, Tanimachi 2-Chome,  
 Chuo-ku, Osaka, 540-0012,  
 Japan

REF No.: 00160

Telephone: 81-6-6942-6958

## TRIZ PREMIUM

### COMPOSITION/INFORMATION ON INGREDIENTS

(Name)	(wt%)	(Formula)	(Cas No.)
Ethyl alcohol	2-7	-	64-17-5
Ethylene glycol	<2	-	107-21-1
Silicic mixture	Non Disclosure	-	Non Disclosure
Water	>80	-	7732-18-5

### HAZARD IDENTIFICATION

GHS classification:

Flammable liquid	Category 4
Serious eye damage / Eye Irritation	Category 2
Germ Cell Mutagenicity	Category 1A-1B
Reproductive Toxicity	Category 1A-1B
Target Organ Systemic Toxicity - Single Exposure	Category 2
Target Organ Systemic Toxicity - Repeated Exposure	Category 2

GHS label elements



Hazard and toxicity information:

- Flammable liquid.
- Causes serious eye irritation.
- May cause genetic defects.
- May damage fertility or the unborn child.
- May cause damage to organs.
- May cause damage to organs through prolonged or repeated exposure.

Precaution: [Safety Measures]

- Get the instruction before use.
- Do not handle this product before you read all the safety precautions and understand it.
- Keep away from ignition sources such as spark, naked flame, high-temperature materials, etc.
- Do not spray onto naked flame, or another ignition source.
- Avoid inhalation of mine dust, smoke, gas, mist, vapor, and spray.
- Wash hands thoroughly after handling.
- Wear protective gloves.

[ First Aid Measures ]

In case of inhalation, remove the victim to fresh air area and keep him quiet.  
If respiratory irritation persists, seek medical attention.  
In case of ingestion, immediately flush out mouth. Do not induce vomiting.  
In case of eye contact, immediately flush eyes with plenty of water for several minutes.  
If eye irritation persists, seek medical attention.  
If attached to skin (or hair), immediately put off all polluted clothes and flush out skin.  
When raised the concern of exposure, seek medical attention.  
Take appropriate fire extinguishing measures.  
Recover the leakage.

[ Storage ]

Store in cool and well ventilated area.  
Keep container tightly closed.

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## FIRST AID MEASURES

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Inhalation of large amounts:

When feeling sick, remove the victim to fresh air area and keep him quiet. Seek medical attention.  
When triggered vomiting by respiring, turn head aside.  
When feeling drowsiness or dizziness, remove the victim to fresh air area and keep him quiet.  
In case of respiratory failure, give rescue breathing or respirator.  
May bring a lagged influence of inhalation.

Skin contact: Immediately flush out with water and wash carefully polluted part using soap.

In case the cloth still sticks to skin after washing, do not induce removing.  
Wash polluted cloth before putting on again.  
Be in danger of bringing on skin problems if washed too late or imperfectly.

Eye contact: Immediately flush eyes with plenty of water for at least 15 min while holding eyelids open.

If eye irritation persists, seek medical attention.  
In case irritation is serious, immediately have medical check.

Ingestion: Immediately wash inside of mouth with plenty water.

Seek medical attention soon.  
Do not induce vomiting.

Most important diagnostic and symptom:

None

Protection for first-aides:

None

Special notes to doctors:

None

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## FIRE FIGHTING MEASURES

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Extinguishing media:

This product itself is not combusive.

Specific hazard and toxicity when fire:

Combustion gas contains toxic gas like carbon monoxide system, nitrogen oxide system gas and so on.  
Be careful not to inhale the smoke when firefighting.

Procedures:

Extinguish the fire from the windward.  
Remove outsiders to safe place.  
In case of fire in the surrounding area, immediately remove containers to safe place.  
In order to prevent the temperature elevation of equipment around fire by radiation heat, cool down it by water spray.

Protection for a person who extinguish fire:

Wear protective gloves, goggles and mask.  
Extinguish the fire from the windward for avoiding inhalation of poisonous gas.

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### ACCIDENTAL RELEASE MEASURES

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Precaution for human body, Protection media, and Emergency measures:

In case of leakage indoors, provide adequate ventilation till the disposal is completed.  
When coping the aftermath of leakage, wear protective gloves, goggles and mask without fail.  
Keep outsiders away from leakage area.  
In case of leakage, put on protective equipment and avoid attaching splash to skin, or inhalation of gas.  
For ignition, prepare fire-extinguisher.  
Leakage area is slippery, so be careful with it.  
Take care so that this product doesn't pollute the environment by leakage flowing into rivers.  
After recovery of the leakage, absorb residue by using sand or sawdust.  
Wear suitable protective equipment. Spill should be collected into a container, which can be tightly closed. Avoid sparks, use plastic made tools when collecting spill.

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### HANDLING AND STORAGE

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Heed the label warnings, and use this product only for proper purpose.  
Keep away from ignition source such as, sparkle, naked flame, high-temperature material.  
Keep the container grounded.  
Take preventive measures against electrostatic discharge.  
Use explosion-proof electrical equipment, ventilating device, lighting device.  
Avoid inhalation of mine dust, smoke, gas, mist, vapor, and spray.  
Do not eat and drink, or smoke while handling this product.  
Wash well hands after handling this product.  
Tighten well a seal of the container.

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### EXPOSURE CONTROLS / PERSONAL PROTECTION

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Measures for facilities:

In case vapor, smoke or mist comes out, set up local ventilation equipment.  
In case of indoor use, set up local ventilation equipment.  
In poorly-ventilated area, or place where vapor comes out well, set up local ventilation equipment.

Permissible Exposure Limit:	ACGIH	
	Threshold Limit Value - TWA	Threshold Limit Value - STEL
Ethyl alcohol	1,000ppm	-
Ethylene glycol	-	100mg/m3

## Protection:

Put on protective mask. If needed, use antidust mask, chemical-cartridge mask or gas mask for organic solvent.

Wear protective glove. If needed, use solvent resistant glove, or vinyl glove.

If needed, put on protective cloth, or protective apron.

If needed, put on protective glasses.

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**PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)**


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Physical form: Liquid	Density: 0.99 ± 0.02 at 25°C
Color and odor: White	pH: 7.5 ± 0.5 at 25°C
Boiling point: 96-100°C	
Vapor Pressure: -	

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**STABILITY AND REACTIVITY**


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Flash point: over 63°C	Reactivity: Should avoid contact with strong oxidant.
Ignition point: no data	
Explosion point: no data	Stability: Very stable
Flammability: no	

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**TOXICOLOGICAL INFORMATION**


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Toxicological information as a whole product:

Acute toxicity:	Ethyl alcohol : LD50 = 6.7 - 17.8 g/kg by RAT (oral)
	Ethylene glycol : LD50 = 4,000 mg/kg by RAT (oral)
	Ethylene glycol : LD50 = 10,600 mg/kg by RAT (skin)
	Ethyl alcohol : LC50 = 20,000 ppm/10hr by RAT (inhalation)

Skin corrosivity / irritation :	No data
Serious eye damage / eye irritation :	Causes eye irritation.
Respiratory or skin sensitization :	No data
Germ cell mutagenicity :	May cause genetic defects.
Carcinogenicity :	No data
Reproductive toxicity :	Suspected of damaging fertility or the unborn child.
Specific target organ systemic toxicity - Single exposure :	No data
Specific target organ systemic toxicity - Repeated exposure :	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard :	No data

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**ECOLOGICAL INFORMATION**


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Toxicological information as a whole product:

Toxicity against aquatic environment (acute):	Ethyl alcohol : LC50 = 5463.9mg/L (daphnia)
	Ethylene glycol : LC50 = 47,000µg/L/96H (Oncorhynchus mykiss)
Toxicity against aquatic environment (chronic):	No data

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**DISPOSAL CONSIDERATIONS**


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Discharge, treatment, or disposal may be subject to national, state, or local laws.

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**TRANSPORT INFORMATION**


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International regulation :

UN classification :	None
UN number :	None

Specific safety measure and condition of transportation:

Be sure that the container has no crack, and no leakage.

Ensure avoiding collapse of cargo.

All transportation such as land, maritime, and air should be in compliance with each regulation.

Avoid direct sunlight.

Water leakage must be avoided.

Do not lay down.

Under hot temperature, don't put container onto hot ground surface or iron plate.

Handle the container carefully, not to give a shock. Don't slam or overturn it.

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**OTHER INFORMATION**

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Guideline of Material Safety Data Sheet by Association of Japan Auto Chemical Industry.

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The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.