

# Material Safety Data Sheet

Manufacturer: Soft99 Corporation

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

REF No.: 04172

Telephone: 81-6-6942-6958

## GLACO MIRROR COAT ZERO

### Ingredient

Name (Concentrate)	wt%	Formula	Cas No.
ISOPROPYL ALCOHOL	85-90	-	67-63-0
SILICA (Propellant)	0.1-3.0	-	68611-44-9
LIQUEFIED PETROLEUM GAS	10-15	PROPANE	74-98-6
		N-BUTANE	106-97-8
		I-BUTANE	75-28-5

### Hazardous identification:

GHS classification:

Flammable Aerosol	Category 1
Flammable liquid.	Category 2
Serious eye damage / eye irritation	Category 2A
Reproductive Toxicity	Category 2
Specific target organ systemic toxicity - Single exposure	Category 1
Specific target organ systemic toxicity - Repeated exposure	Category 2
Aspiration hazard	Category 2

GHS label elements



Hazard and toxicity information:

Highly flammable aerosol  
 Flammable liquid and vapor  
 Hazardous in case of skin contact  
 Strong eye irritant  
 May cause allergy, asthma or respiratory distress by inhalation  
 May bring damage on reproductive function or unborn baby  
 Long-term or repeated exposure may cause involvement of organ  
 Harmful if swallowed and get into the respiratory tract

Precaution: [ safety measure ]

Get the instruction before use.  
 Do not handle this product before you read all the safety precautions and understand it.  
 Keep away from ignition source such as, sparkle, naked flame, high-temperature material.

Do not spray onto naked flame, or another ignition source.  
Keep the container sealed.  
Keep the container grounded.  
Take preventive measures against electrostatic discharge.  
Use explosion-proof electrical equipment, ventilating device, lighting device.  
Do not pierce or burn the aerosol can, even after using up.  
Avoid inhalation of mine dust, smoke, gas, mist, vapor, and spray.  
Use only outdoors, or well ventilated place  
Avoid inhalation of mine dust, smoke, gas, mist, vapor, and spray.  
Prevent the chemical from being released into the environment.  
Wash well hands after handling this product.  
Wear protective gloves and goggles.

[ Emergency treatment ]

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 extinction measure.  
Recover the leakage.

[ Storage ]

Block direct sunlight, and do not expose this product in the temperature over 40°C  
Store in cool and well-ventilated area.  
Tighten well a seal of the container.

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**First aid measures:**

In case of inhalation in large doses:

When feeling sick, remove the victim to fresh air area and keep him quiet. Seek medical attention.  
When aspiration triggers vomiting, 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.

In case of contact with the skin:

Immediately flush out with water and wash carefully polluted part using soap.  
Immediately remove all contaminated clothing, and flush skin with plenty of water.  
In case of eruption of blisters or having an pain, get medical attention.  
In case of feeling sick, get medical attention.  
As this product is flammable, watch out for fire while taking measures.  
Wash contaminated clothing before reuse.

If it reaches the eyes:

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.

## In case of ingestion:

- Immediately wash inside of mouth with plenty water.
- Seek medical attention soon.
- Do not induce vomiting.

## Most important diagnostic and symptom:

Nothing special

## Protection for a person who provides emergent measures:

Nothing special

## Notes to Physician:

Nothing special

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**Fire fighting measures:**

## Extinguishing media:

Fire-extinguishing powder, fire-extinguishing foam, carbon dioxide.

## Not recommended extinguish media:

- Don't use water for fire extinction
- Misty water can be used only for cooling. Rod-shaped water must not be used for extinction.

## 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.
- This product is at risk of explosion when ignited. In this case, immediately get away from it.

## Procedures:

- Extinguish the fire from the windward.
- Remove outsiders to safe place.
- In case of fire at 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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**Measures against spill and leak:**

## Precaution for human body, Protection media, and Emergency measure:

- 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.

**Handling precaution:**

- 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.
- Do not continue to spray over specified time.
- 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.

**Exposure controls / personal protection:**

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
IPA	200ppm	400ppm
SILICA	0.025mg/m <sup>3</sup>	-
LPG	1800mg/m <sup>3</sup>	-
	800ppm	-

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.

**Physical and chemical properties:**

Physical form: Liquid	Density: 0.791 (at 20°C)
Color and odor: light white	pH: -
Boiling point: 83°C	
Vapor Pressure: 0.20 Mpa (at 25°C)	

**Information about dangers:**

Flash point: 11.7°C	Reactivity: Well reacts with strong oxidant to bring fire or explosion.
Ignition point: 460°C	
Explosion point: Lower 2.0 vol%, Upper 12.0 vol%	Stability: stable
Flammability: Yes	

**Toxicological information:**

Toxicological information as a whole product:

Acute toxicity:

IPA	: LD50 1,870mg/kg by RAT (oral)
IPA	: LD50 4,059mg/kg by RABBIT (skin)

Skin corrosively / irritation : None

Serious eye damage / eye irritation :	Strong eye irritation.
Respiratory or skin sensitization :	No data
Germ cell mutagenicity :	No data
Carcinogenicity :	No data
Reproductive toxicity :	Possibility of bringing bad effect on reproductive ability or unborn baby.
Specific target organ systemic toxicity - Single exposure :	May bring irritation on respiratory organ, and cause drowsiness or dizziness.
Specific target organ systemic toxicity - Repeated exposure :	Long-term or repeated exposure may cause disorder of organ.
Aspiration hazard :	No data

**Ecological Information:**

Toxicological information as a whole product:

Toxicity against aquatic environment (acute):

IPA :LC50 = 100mg / L / 96H (Daphnia magna)

Toxicity against aquatic environment (chronic): No data

**Disposal considerations:**

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

**Transport information:**

International regulation :

UN classification : High-pressure gas Flammable gas **class 2.1**

UN number : Aerosol **1950**

Specific safety measure and condition of transportation:

"Keep Fire Away."

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.

**Other information:**

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

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.