

Safety Data Sheet

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Glaco Blade

COMPOSITION/INFORMATION ON INGREDIENTS

(Name)	(wt%)	(Formula)	(Cas No.)
Isopropyl Alcohol	>90	-	67-63-0
Silicone Mixture	Non-Disclosure	-	Non-Disclosure

HAZARD IDENTIFICATION

GHS classification:

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 - Single exposure	Category 3
Specific target organ systemic toxicity - Repeated exposure	Category 1

GHS label elements



Hazard and toxicity information:

Highly flammable liquid and vapor.
Strong eye irritation.
May cause genetic defects.
May bring damage on reproductive function or unborn baby.
Damage to organ.
May cause respiratory system disorder, drowsiness or dizziness.
Long-term or repeated adverse effect may causes organ disorder.

Precaution: [Safety Measures]

Get the instruction before use.
Do not handle this product before you read all the safety precautions and understand it.
Avoid heat, spark, naked flame, high-temperature materials and other ignition sources.---NO SMOKING!
Keep container tightly closed.
Ground container.
Take preventive measures against electrostatic discharge.
Use explosion-proof electrical equipment, ventilating device, lighting device.
Use in a well-ventilated area.
Avoid inhalation of mine dust, smoke, gas, mist, vapor and spray.
Use only outdoors or at a well ventilated place.

Do not eat, drink and smoke while using this product.
Wash hands thoroughly after handling this product.
Wear protective gloves and goggles.

[First Aid Measures]

Inhalation: Move the victim to fresh air area and keep him quiet.
If respiratory irritation persists, seek medical attention.

Ingestion: Do not induce vomiting. Rinse mouth. Seek medical attention immediately.

Eye contact: Carefully flush eyes with water for several minutes. If easily accomplished, check for
and remove contact lens. Keep flushing eyes afterward.

Skin (or hair) contact: Immediately remove contaminated clothing and flush skin with water and soap.
Wash contaminated clothes before wearing them again.

Exposure: Seek medical attention.

Take appropriate fire fighting measures.

If feeling sick, seek medical attention immediately.

[Storage]

Store in a cool and well-ventilated area.
Keep container tightly closed.
Keep out of reach of children.

FIRST AID MEASURES

Inhalation of large amounts:

Move the victim to fresh air area and keep him quiet.
If illness persists, seek medical attention immediately.
If vomiting occurs spontaneously, lay him on his side.
If breathing is difficult, give artificial respiration or oxygen.
Symptoms may be delayed.
Seek immediate medical attention if above symptoms appear.

Skin contact: Immediately flush affected area with water and clean it thoroughly with soap.

Immediately remove contaminated clothing and flush skin with water.
Flush affected area with large amounts of water and soap. Seek medical attention as needed,
if symptoms such as pain or blister appear.
Seek medical attention if feeling sick.
Keep away from fire, because this is flammable liquid.
Seek immediate medical attention if above symptoms appear.
In case of cloth contact, flush affected area with large amounts of water.
Remove contaminated clothing as soon as possible, and wash them before wearing them again.

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: Rinse mouth.
Seek immediate medical attention.
Do not induce vomiting.

Most important diagnostic and symptom:

None

Protection for first-aides:

None

Special notes to doctors:

None

FIRE FIGHTING MEASURES

Extinguishing media:

Fire-extinguishing powder / Fire-extinguishing foam / Carbon dioxide / Sand / Mist water

Not recommended extinguish media:

Water fog and spray can be used to cool. Do not use solid streams of water.

Specific hazard and toxicity when fire:

Combustion gas contains toxic gas like carbon monoxide system, nitrogen oxide system gas and so on.

This product contains N,P,S Harogen in morecular, it causes irritation or toxic hume (or gas) when combustion.

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 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.

ACCIDENTAL RELEASE MEASURES

Personal precautions:

Provide adequate ventilation in a room until work finishes.

Wear suitable protective equipment such as protective mask, gloves, goggles and apron during cleanup operation.

Keep non-essential personnel out of fire area.

Wear appropriate personal protective equipment when clean-up working, avoid to adhere the spray etc., to the skin, and to inhale gasses.

Work from the windward side and evacuate possible victims.

Prepare proper fire-extinguisher for accidental ignition.

Be careful not to slip on the spilled area.

Environmental precautions:

Prevent spilled materials from entering drainage systems and natural waterways, and avoid discharges of environmentally harmful substances.

Methods for cleaning up:

Absorb residual liquid with dry earth, sawdust or the like.

For small spill, absorb with absorbent materials such as sawdust, dry earth, sand, cloth or the like, wipe off residual liquid with cloth or the like. Transfer to appropriate waste containers, which can be tightly closed. For large spill, cover with dry earth to prevent the drain of the liquid, and dispose at a safety area.

This product is acid, neutralize with alkalis.

Dispose in compliance with all applicable laws and regulations.

Prevention of secondary hazards:

Immediately call for related agencies to prevent accidents and extension.

Immediately eliminate all ignition sources, and provide extinguishing media.

Use non-sparking tools.

HANDLING AND STORAGE

Handling: Do not handle this product before you read all the safety precautions and understand it.
 Keep away from ignition source such as spark, naked flame and high-temperature materials.
 Ground container.
 Take preventive measures against electrostatic discharge.
 Use non-sparking tools.
 Use explosion-proof electrical equipment, ventilating device or lighting device.
 Avoid leak, spill and scatter. Do not generate vapor without reasons.
 Avoid inhalation of mine dust, smoke, gas, mist, vapor and spray.
 Use in a well-ventilated area.
 Do not eat, drink and smoke while using this product.
 Keep container tightly closed as needed.
 Wash hands well after handling this product.

Storage: Do not store this product before you read all the safety precautions and understand it.
 Keep container tightly closed as needed.
 Store in a well ventilated area.
 Keep away from ignition source such as spark, naked flame and high-temperature materials.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Protective Equipment: Provide local exhaust ventilation, if vapor, smoke and mist occur.
 Provide local exhaust ventilation, when handling in a room.
 Provide local exhaust ventilation in poorly-ventilated area, or place where vapor easily occurs.

Occupational Exposure Guidelines:

	ACGIH	
	Threshold Limit Value - TWA	Threshold Limit Value - STEL
Isopropyl Alcohol	200ppm	400ppm

Personal Protective Equipment:

Respiratory Protection: Wear protective mask as needed.
 Wear dust respirator, gas mask or organic solvent gas mask as needed.

Hand Protection: Wear protective gloves, solvent resistant gloves or vinyl gloves as needed.

Body Protection: Wear protective clothing or protective apron as needed.

Eye Protection: Wear protective glasses, goggles or mask as needed.

PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

Physical State: Liquid
Color: Clear- Light yellow transparent

Boiling Range:	82.4°C
Flash point:	11.7°C
Auto Ignition Temperature/Point:	460°C
Flammability:	YES
Flammable or Explosive Range:	2.0-12 vol%
Specific Gravity :	0.789±0.02 (at 25°C)
Solubility in Water:	Soluble

STABILITY AND REACTIVITY

Chemical Stability:	Stable
Hazardous Polymerization:	Reacts vigorously with strong oxidizer and causes fires and explosions.
Conditions to Avoid:	Keep away from heat, flame and other potential ignition sources. Keep away from strong oxidizer.
Materials Incompatibility:	Strong oxidizer.
Hazardous Decomposition Products:	None
Other:	None

TOXICOLOGICAL INFORMATION

Toxicological information as a whole product:

Acute toxicity:

Isopropyl Alcohol	: LD50= 1,870 mg/kg by Rat (oral)
Isopropyl Alcohol	: LD50= 4,059 mg/kg by Rabbit (skin)

Skin corrosively / irritation :	No Data
Serious eye damage / eye irritation :	Serious eye damage. (Category 2A)
Respiratory or skin sensitization :	No Data
Germ cell mutagenicity :	No Data
Carcinogenicity :	No Data
Reproductive toxicity :	May damage fertility or the unborn child. (Category 2)
Specific target organ systemic toxicity - Single exposure :	Organ disorder. (Category 1)
Specific target organ systemic toxicity - Single exposure :	May cause respiratory system disorder, drowsiness or dizziness. (Category 2)
Specific target organ systemic toxicity - Repeated exposure :	Long-term or repeated adverse effect causes organ disorder. (Category 2)
Aspiration hazard :	No Data

ECOLOGICAL INFORMATION

Toxicological information as a whole product:

Toxicity against aquatic environment (acute):	LC50 >100mg/L/96H by Oryzias latipes (Isopropyl Alcohol)
Toxicity against aquatic environment (chronic):	No Data

DISPOSAL CONSIDERATIONS

Consign a qualified industrial waste treatment firm by a prefectural governor.

TRANSPORT INFORMATION

International regulation :

UN classification :	Flammable liquid / Non-poisonous Class 3
UN number :	Alcohol denat. 1987

Domestic restriction :

Container Yellow Label Flammable liquid (Polar/ Soluble in Water) **127**

Loading measures: Do not load cargo above the height of 3m.

Do not load with: Class 1 and 6 combustible materials.

High pressure gas

Specific safety measure and condition of transportation:

Keep away from fire.

Check the containers in advance.

Safety measure and condition of transportation (Packaging, Labeling and Transporting) should be in compliance with general precautions.

Prevent cargo collapse.

Avoid direct sunlight.

Keep away from leak.

No Lay Down.

Do not load directly on heated steel board or ground in the summer time.

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

REGULATORY INFORMATION

Explosives Control Law:	N/A
High Pressure Gas Safety Law:	N/A
Fire Services Act:	Class 4 Alcohol Grade II (400L)
Poisonous and Deleterious Substances Control Law:	N/A
Industrial Safety and Health Law:	Contains notifiable substances.
Industrial Safety and Health Law (Ordinance On Prevention of Organic Solvent Poisoning):	Type 2 Organic Solvent
PRTR:	N/A

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.