

REF. No. 10310	Ultra Glaco(T)	Created date	2020/4/1
Ver. 2	SOFT99 corporation	Rev. date	2021/3/15

Safety Data Sheet

1. Identification

Product name	Ultra Glaco(T)
Product code	10310
Manufacturer	Soft99 Corporation
Address	6-5, Tanimachi 2-Chome, Chuo-ku, Osaka, 540-0012, Japan
Department	Research & Development
Telephone	06-6942-6958
Product use	Water-repellent glass coating
Date of creation	2020/4/1
Date of revision	2021/3/15

2. Hazard identification

GHS classification		
Flammable liquid		Category 2
Serious eye damage/irritation		Category 2
Reproductive toxicity		Category 2
Specific target organ toxicity (Single exposure)		Category 1 (central nervous system, systemic toxicity)
Specific target organ toxicity (Single exposure)		Category 3 (respiratory irritation)
Specific target organ toxicity (Repeated exposure)		Category 1 (blood)
Specific target organ toxicity (Repeated exposure)		Category 2 (liver, spleen, respiratory organs)

Note: Classifications not shown here are either not applicable or cannot be classified due to lack of data.
GHS label symbols



Signal word **Danger**

Hazard statements

- H225 Highly flammable liquid and vapor
- H319 Causes serious eye irritation
- H361 Suspected of damaging fertility or the unborn child
- H370 Causes damage to organs
- H335 May cause respiratory irritation
- H372 Causes damage to organs through prolonged or repeated exposure
- H373 May cause damage to organs through prolonged or repeated exposure

Precautions

- [Safety Measures]
- P201 Obtain special instructions before use.
- P202 Do not handle until all the safety precautions have been read and understood.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
NO SMOKING!
- P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
- P243 Take action to prevent static discharges.
- P241 Use explosion-proof [electrical/ventilating/lighting/etc.] equipment.
- P242 Use non-sparking tools.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P270 Do not eat, drink or smoke when using this product.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face shield.
- [First aid measures]
- IF INHALED:
- P340 Remove victim to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor/physician, if you feel unwell.
- IF SWALLOWED:
- P330,331 Do NOT induce vomiting. Rinse mouth.
- P310 Immediately call a POISON CENTER/doctor/physician.

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IF IN EYES:

- P351 Rinse cautiously with water for at least 15 minutes.
- P338 Remove contact lenses, if present and easy to do. Continue rinsing.
- P313,337 If eye irritation persists, get medical advice/attention.

IF ON SKIN (or hair):

- P361,353 Remove immediately all contaminated clothing. Rinse skin with water [or shower].
- P308,311 If exposed or if you feel unwell: Call a POISON CENTER/doctor/physician.
- P314 Get medical advice/attention if you feel unwell.
- P378 Use suitable extinguishing methods.

[Storage]

- P102,405 Keep out of reach of children. Store locked up.
- P403,233,235 Store in a well-ventilated place. Keep container tightly closed and cool.

[Disposal]

- P501 Dispose of product and containers in accordance with all applicable local, state, federal, and international regulations.

3. Composition/information on ingredients

Classification of the substance or mixture

- Mixture

Ingredient	(wt%)	CAS No.
Isopropanol	90-100	67-63-0
Hydrochloric acid	< 1	7647-01-0

4. First-aid measures

INHALATION:

- Remove victim to fresh air and keep comfortable for breathing.
- Get medical advice/attention if symptoms persist.
- If experiencing symptoms of drowsiness or dizziness, remove victim to fresh air and keep comfortable for breathing.
- If vomiting occurs, keep head low so that stomach content does not enter the lungs.
- If breathing difficulties develop, oxygen should be administered by qualified personnel.
- Symptoms may arise some time after inhalation.
- If any of the above symptoms occur, get immediate medical advice/attention.

SKIN CONTACT

- Wash affected area with large amounts of water and soap.
- Immediately call a POISON CENTER/doctor/physician.
- Wash contaminated clothing before reuse.
- Take off contaminated clothing immediately.
- Wash affected skin with large amounts of soap and water.
- If clothing is stuck to skin after washing with water, do not use force to remove it.
- Insufficient or delayed rinsing may lead to serious skin injury.
- Keep away from open fire, sparks and other ignition sources.
- If any of the above symptoms occur, get immediate medical advice/attention.

EYE CONTACT

- Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes.
- Ensure thorough flushing behind the eyelids, and all around the eye.
- Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists, get medical advice/attention.
- If intense pain persists, get medical advice/attention immediately.

INGESTION

- Immediately rinse mouth thoroughly.
- Get medical advice/attention immediately
- Do NOT induce vomiting.
- This product is corrosive. Vomiting may increase chance of injury.
- Get medical advice/attention immediately.
- If a child is suspected of swallowing this product, seek medical treatment immediately.
- If necessary, use artificial ventilation or oxygen.

Most serious sign(s) and/or symptom(s)

- None known.

Notes to doctor

- Not specified.

5. Fire-fighting measures

Suitable extinguishing media

- Powder, water-based foam, carbon dioxide, water mist

Unsuitable extinguishing media

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- Using mist for cooling is acceptable, but do not aim a stream of water at the fire.

Specific hazards with regard to fire-fighting

- Fumes emitted from the burning product contain poisonous gases such as carbon monoxide, nitrogen oxides, etc. When extinguishing, take care not to inhale the smoke.

Particular fire fighting measures

- If possible, perform extinguishing procedures upwind from the fire.
- Evacuate all non-essential personnel from immediate area.
- In case of fire nearby, move product to a safe place.
- Do not admit non-essential people to the area of the fire.
- Apply water from a safe distance to cool and protect surrounding area.
- Avoid discharges of environmentally harmful substances.

Protection for firefighters

- Wear proper protective gloves, goggles and mask.
- Perform extinguishing procedures upwind from the fire. Avoid breathing fumes. Use breathing equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- If indoors, ensure sufficient ventilation until the clean-up has been completed.
- Wear suitable protective equipment such as protective mask, gloves, goggles and apron during cleanup operation.
- Prevent others from entering the area with a rope, etc.
- Take suitable measures to avoid contact with skin, inhalation of fumes and dust, etc.
- Work from upwind, evacuate people from downwind of the release.
- As a precaution against fire, prepare a fire extinguisher.
- The area of the spillage may be slippery. Take care.

Environmental precautions

- Do not release into rivers, sewers, or other routes that may damage the environment.

Methods and materials for containment and cleaning up

- If in small quantities, absorb the spill (using sand, sawdust, rags, etc.) and thoroughly wipe up the remnants using cloth or rags. Move contaminated material to a sealed container.
- If in large quantities, contain the spill with dykes (sandbags, etc.) before cleaning up.
- This product is a strong acid. Contain the spill with dykes (sandbags, etc.) and dilute SLOWLY with water. If necessary neutralize the diluted spillage with slaked lime, soda ash, etc.
- Do not drain into sewers or otherwise release into the environment.
- Deal with contaminated material and waste according to the appropriate regulations.

Prevention of secondary disasters

- To prevent spreading or accidents, inform the relevant person(s) immediately.
- Immediately eliminate all ignition sources, and prepare extinguishing media.
- Use non-sparking tools.

7. Handling and storage

Handling

- Read the instructions and take all precautions before use.
- Do not use except for intended purpose.
- Obtain special instructions before use.
- Do not handle this product until all safety precautions have been read and understood.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
- Ground and bond container and receiving equipment.
- Take action to prevent static discharges.
- Use non-sparking tools.
- Use explosion-proof [electrical/ventilating/lighting/etc.] equipment.
- Prevent spilling and splashing. Do not allow unnecessary evaporation.
- This product is acidic. Do not allow contact with alkali materials.
- Avoid breathing dust/fumes/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Do not eat, drink or smoke when using this product.
- Keep container tightly closed.
- Wash hands thoroughly after handling.

Storage

- Store according to instructions on the product.
- Keep tightly sealed.
- Store in a cool, well ventilated area.

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- Store in a locked area.
- Store away from fire, hot objects, and other sources of ignition.
- Do not store together with alkali.
- Store in stainless steel or polyethylene container.

Packaging

8. Exposure controls/personal protection

Occupational exposure guidelines

	ACGIH (TLV-TWA)	(TLV-STEL)
Isopropanol	200 ppm	400 ppm
Hydrochloric acid	2 ppm (2009)	

- Protective equipment
- If vapors, mist, or smoke is produced, provide ventilation.
 - Provide local exhaust ventilation when using indoors.
 - Fully ventilate indoor environments. If poorly ventilated, use local exhaust ventilation.

Personal protective equipment

- Respiratory
- Wear dust respirator, gas mask or organic solvent gas mask as needed.
- Hand
- Wear protective gloves, solvent resistant gloves or vinyl gloves as needed.
- Eye, face
- Wear protective glasses, goggles or mask as needed.
- Body, skin
- Wear protective equipment as clothing or boots or apron as needed.

9. Physical and chemical properties

Physical state	: Liquid
Color	: White opaque
Odor	: Alcohol odor
Melting point	: No data
Boiling point and range	: 82 °C (Isopropanol)
Flammability	: Flammable
Combustion/explosion limits	: 2.0–12.7 vol% (Isopropanol)
Flash point	: 11.7 °C (Isopropanol)
Auto-ignition temperature	: 456 °C (Isopropanol)
Decomposition temperature	: No data
pH (25°C)	: 2.7±0.5 (10%Water-diluted solution)
Solubility in water	: Some insoluble
Vapor pressure (25°C Product internal pressure)	: No data
Relative density (25 °C)	: 0.794±0.01
Relative vapor density	: No data

10. Stability and reactivity

Chemical stability	•Stable under normal conditions.
Possibility of hazardous reactions	•Reacts vigorously with strong oxidants. May cause fire or explosion.
Conditions to avoid	•Heating and heat sources, open flames •Avoid contact with strong oxidizing agents.
Incompatible materials	•Strong oxidants •Alkaline material
Hazardous decomposition products	•None known.
Other	•None known.

11. Toxicological information

There is no product test data.

Isopropanol	(Oral)	LD50 3437 mg/kg (Rat)
Hydrochloric acid	(Oral)	LD50 238 mg/kg (Rat)
Isopropanol	(Dermal)	LD50 4059 mg/kg (Rabbit, CERI(1999))
Hydrochloric acid	(Dermal)	LD50 > 5010 mg/kg (Rabbit, SIDS (2009))
Isopropanol	(Inhalation)	LD50 72600 mg/m ³ /4h (Rat)
Hydrochloric acid	(Inhalation)	LC50 1.68 mg/L/1h (Rat)
Acute toxicity (Oral)	Not classified	
Acute toxicity (Dermal)	Not classified	
	0–10 percent of the mixture consists of ingredient(s) of unknown acute dermal toxicity.	
Acute toxicity (Inhalation)	Classification not possible	

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0-10 percent of the mixture consists of ingredient(s) of unknown acute inhalation toxicity.

Skin corrosion/irritation	Classification not possible
Serious eye damage/irritation	Causes serious eye irritation (Category 2)
Respiratory sensitization	Classification not possible
Skin sensitization	Classification not possible
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Classification not possible
Reproductive toxicity	Suspected of damaging fertility or the unborn child (Category 2)
Specific target organ toxicity (Single exposure)	Causes damage to organs (Category 1)
Specific target organ toxicity (Single exposure)	May cause respiratory irritation (Category 3)
Specific target organ toxicity (Repeated exposure)	Causes damage to organs through prolonged or repeated exposure (Category 1)
Specific target organ toxicity (Repeated exposure)	May cause damage to organs through prolonged or repeated exposure (Category 2)
Aspiration hazard	Classification not possible

Hazard category information

Ingredient	Acute toxicity			Skin corrosion /irritation	Serious eye damage /eye irritation
	Oral	Dermal	Inhalation		
Isopropanol	-	-	-(vapor)	-	2
Hydrochloric acid	3	-	3(gas), 2(mist)	1	1

Ingredient	Respiratory sensitization	Skin sensitization	Germ cell mutagenicity	Carcinogenicity	Reproductive toxicity
Hydrochloric acid	1	-	-	-	-

Ingredient	Specific target organ toxicity		Aspiration hazard
	Single exposure	Repeated exposure	
Isopropanol	1,3(R)	1,2	
Hydrochloric acid	1	1	

Blank: Not classified/
Classification not possible
- : Not classified
R: Respiratory irritation
D: Drowsiness or dizziness

For the purpose of GHS classification of the product, in some cases the classification of the raw materials is used. Toxicological data for each component are reference values.

12. Ecological information

There is no product test data.

Hazardous to the aquatic environment, acute hazard

Isopropanol	LC50 > 100 mg/L/96h (Oryzias latipes var.)
Hydrochloric acid	LC50 0.492 mg/L (Crustacean (Daphnia magna))
	Classification not possible
	0-10 percent of the mixture consists of ingredient(s) of unknown acute hazards to the aquatic environment.

Hazardous to the aquatic environment, chronic hazard

Classification not possible
0-10 percent of the mixture consists of ingredient(s) of unknown chronic hazards to the aquatic environment.

Hazard category information

Ingredient	Hazardous to the aquatic environment	
	Acute hazard	Chronic hazard
Isopropanol	-	-
Hydrochloric acid	1	-

Blank: Not classified/Classification not possible
- : Not classified

Persistence and degradability	No information available.
Bioaccumulative potential	No information available.

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Mobility in soil
Harmful to the ozone layer

No information available.
No information available.

13. Disposal considerations

- Use all contents before disposal.
- Dispose of in accordance with applicable regional, national, and local laws and regulations.

14. Transport information

UN class 3 Flammable liquids
UN number UN1219 ISOPROPANOL (solution)
Packing group II

Specific safety measures and condition for transportation

- Strictly no sources of ignition
- Check for breakages and leaks
- Prevent luggage from collapsing
- Wrap, display and transport according to the law.
- Avoid direct sunlight
- Do not wet
- Pack upright
- Do not place on hot surfaces (outside during summer, etc.)
- Handle carefully to avoid shocks and violent movements

15. Regulatory information

Follow the applicable regional, national, and local laws and regulations.

16. Other information

References

Hazard communication of chemicals based on GHS–Labelling and Safety Data Sheet (SDS) JIS Z7253(2019)
GHS Classification Results (NITE website, Japan)
Supplier's SDS
Guide to SDS Composition for Auto Chemicals (JACA)

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