

Material Safety Data Sheet

1. Identification

Product Name : StayClean-F SC-F1-02
 Recommended Application and Restriction of Use : Additive for dicing cutting water
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2. Hazard(s) identification

GHS Classification

Physical and Chemical Hazards	Classification
Flammable Liquid	Not classified under GHS
Other elements do not fall under GHS classification or are unclassifiable.	
Health Hazards	Classification
Acute Toxicity - Oral	Not classified under GHS
Other elements do not fall under GHS classification or are unclassifiable.	
Environmental Hazards	Classification
All elements are unclassifiable.	

Label Elements

Symbol : NIL
 Signal Words : Warning
 Hazard Statement : Harmful if swallowed

Precautionary Statements

[Safety Measures]

- Obtain instruction manual before use. Do not use this product until you read and understand all the safety precaution.
- Do not eat, drink or smoke when using this product.
- Do not inhale mist, vapor or spray.
- Wear protective gloves, protective glasses and a protective mask.
- Wash your hands thoroughly after handling of the product.

[First Aid Measures]

- Take appropriate fire extinguishing measures in case of fire.
- In case of inhalation, shift to fresh air and cover the body with blanket, etc. Rest and keep warm. In case of unusual symptom, seek medical attention.
- In case of ingestion, rinse mouth with water immediately and give 1-2 glasses of water or milk. Do not induce vomiting. Seek medical attention immediately. If unconscious, give nothing by mouth and do not induce vomiting. Seek medical attention immediately.
- In case of eye contact, immediately flush eyes with clean running water for at least 15 minutes. If contact lens can be removed easily, flush eyes without contact lens. If eye irritation persists, seek medical attention.

- In case of skin contact, wash with plenty of water and soap.
- Immediately take off and remove all the contaminated clothing, if any. Wash contaminated clothing before reuse.
- If there is concern of exposure, seek medical attention.
- In case of feeling unwell, seek medical attention.
- In case of skin irritation, seek medical attention.
- Collect leakage.

[Storage]

- Avoid direct sunlight. Tightly close the lid. Keep in dark, cool place where can avoid freezing.
(To avoid deterioration)

[Disposal]

- Dispose chemical and container in compliance with local regulation.

3. Composition / information on ingredients

Classification of single substance or mixture : Mixture

Ingredients and content	<u>Ingredients</u>	<u>Content</u>
	Organic acid inorganic alkali salt	20 ~ 30%
	Water	Remainder

4. First-aid measures

Eye contact	: Immediately flush eyes with clean running water for at least 15 minutes and consult eye specialist. If contact lens can be removed easily, flush eyes without contact lens. If eye irritation persists, seek medical attention.
Skin contact	: Wash exposed area thoroughly with water or lukewarm water. If change in skin is observed or pain persists, seek medical attention.
Inhalation	: In case of mist inhalation, immediately gargle and blow nose. Then drink 1-2 glasses of water slowly. In case of unusual symptom, seek medical attention.
Ingestion	: Immediately rinse mouth and give 1-2 glasses of water or milk. Do not induce vomiting. Seek medical attention immediately. If unconscious, give nothing by mouth and do not induce vomiting. Seek medical attention immediately.

5. Fire-fighting measures

Extinguishing media	: Water, powder and carbon dioxide gas are effective.
Specific hazards and toxicity	: Undiluted solution is not inflammable liquid.
Specific extinguishing method	: Remove the original cause of the fire and extinguish the fire with extinguishing media from windward.
Protection of fire fighter	: Wear appropriate respiratory protective equipment and chemical protection gear for extinguishing.

6. Accidental release measures

Personal precautions, protective gear and emergency measures	: If accidental release occurred indoor, ensure adequate ventilation until completion of work. Wear appropriate protective gear (see 8. Exposure controls / personal protection) to avoid eye and skin contact. Do not allow entry to released area by surrounding the area with a rope, etc. Immediately remove source of ignition from released area. Work from windward and evacuate personnel to safe area.
Environmental precautions	: Avoid release to environment. Be cautious not to have runoff into waterways, etc. to avoid impact on environment.
Methods and materials for containment and cleaning up	: In case of major release, contain run-off by diking. Collect effluent product as much as possible with pail and pump, etc. In case of minor release, absorb effluent product with sand, soil, or sawdust etc., then collect in empty container.

Secondary accident preventive measure : Immediately remove all ignition sources (smoking, fireworks and flame around the affected area are prohibited.) Prevent run-off into drainage, drain sewer, basement room and closed area.

7. Handling and storage

Handling : Be cautious to avoid eye and skin contact. Wear appropriate protective gear such as protective glasses and gloves when handling the product. You may feel unwell in case of inhalation of mist or vapor. Ensure adequate ventilation and avoid inhalation of mist or vapor by using respiratory protective equipment, etc. Avoid contact with or bring near to fire, spark, hot object or strong oxidant.

Storage : Avoid direct sunlight. Tightly close the lid. Keep in dark, cool place where can avoid freezing (to avoid change of properties).

Others : Observe provisions of applicable laws and regulations.

8. Exposure controls / personal protection

Control concentration : Not specified.

Allowable concentration : Not specified.

Facilities measures : A safety shower and hand washing facility should be available in proximity and clearly indicate the location of the facility.

Protective gears : Use the protective gear listed below according to situation.

Respiratory protective equipment : Wear gas mask (for organic gas) when necessary.

Protective glasses : Wear goggle-type glasses or disaster prevention mask in case of splashing.

Protective gloves : Wear oil-resistant protective gloves in case of prolonged or repetitive contact.

Protective clothing : Wear oil-resistant long-sleeve working clothes in case of prolonged handling or getting wet. Immediately remove wet clothing. Reuse it only after washed completely.

Sanitary measures : Wash hands thoroughly after handling.

9. Physical and chemical properties (Representative value)

Appearance : Colorless transparent liquid to light yellowish transparent liquid

Odor : Mild ammonia odor

Density : 1.049/cm³ (15°C)

pH : 4.7 (undiluted solution)

Solubility : Readily soluble in water

Melting point : 0°C or below

Ignition point : NIL

Explosion limit : No data available (for both upper/lower limits)

(upper/lower)

10. Stability and reactivity

Stability : Stable under normal conditions of storage and use.

Possible hazardous reaction : React with strong oxidant

Condition to avoid : Contact with incompatible material

Incompatibility with other material : Strong oxidant

Hazardous decomposition products : Combustion may produce carbon monoxide, carbon dioxide and NO_x.

11. Toxicological information

Acute toxicity (oral) : Category 5

(skin) : Unclassifiable

(inhalation-vapor) : Classification not applicable

(inhalation-mist) : Unclassifiable

Skin corrosion / stimulation	: Unclassifiable
Serious eye damage / irritation	: Unclassifiable
Respiratory sensitization	: Unclassifiable
Skin sensitization	: Unclassifiable
Reproductive cell mutagenicity	: Unclassifiable
Carcinogenicity	: Unclassifiable
Reproductive toxicity	: Unclassifiable
Specific target organ / systemic toxicity (Single exposure)	: Unclassifiable
Specific target organ / systemic toxicity (Repeated exposure)	: Unclassifiable
Aspiration hazard	: Unclassifiable

12. Ecological information

Aquatic toxicity - acute	: Unclassifiable
Aquatic toxicity - chronic	: Unclassifiable

13. Disposal considerations

Dispose waste from residues and waste container in an appropriate manner in compliance with local and national regulations.

Dispose waste from residues by the company or engage licensed waste disposal contractor or use waste disposal service by local authority, if any. Waste container may be ruptured if pressurized. Be cautious as residues in waste container may be ruptured with explosion if the container is welded, processed, pierced or cut.

14. Transport information

When transporting, make sure that there is no leakage on container. Load carefully so as not to have overturning, drop or damage. Take complete preventive measures to avoid load collapse. Observe precautions mentioned in "Handling and storage" as well as relevant laws and regulations for storing, handling, packing, packaging and transporting of the product.

Land transport	: Non-hazardous material.
Marine transport	: Non-hazardous material.
Air transport	: Non-hazardous material.
UN classification	: Not categorized as hazardous material based on the evaluation according to UN standard.
UN No.	: Not categorized as hazardous material based on the evaluation according to UN standard.

15. Regulatory information

*Japan's national laws

Occupational Health and Safety Law	: Not applicable
Pollutant Release and Transfer Registers Law	: Not applicable
Poisonous and Deleterious Substance Control Law	: Not applicable
Fire Service Law	: Not applicable
Chemical Substances Control Law (Specific and Designated Chemical Substance)	: Not applicable
Water Pollution Prevention Law	: Emission standard restricted.
Law Relating to Prevention of Marine Pollution and Maritime Disaster	: Not applicable
Waste Disposal and Public Cleansing Law	: Regulation of Industrial Waste (Prohibition of Dispersion and Effluence)
Sewerage Law	: Emission standard restricted

Aviation Law	: Not applicable
Export Trade Control Order	: Not applicable

16. Other information

Literature	: 1)IUCLID (2000)
References	2)IARCsuppL7 (1987)
	3)ACGIH (2001)
	4)IARC33 (1984)
	5)EHC20 (1982)
	6)ICSC (2001)
	: 1. JIS Z7250:2005
	2. "GHS-Model MSDS Information", Japan Advanced Information Center of Safety and Health

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