# SAFETY DATA SHEET



### 1. Identification

Product identifier	SOUR / SOFT
Other means of identification	
SDS number	256LLSS
Product code	HIL00114
Recommended use	Fabric Softener, Neutralizer, Iron Control Agent.
Recommended restrictions	For Labeled Use Only
Manufacturer/Importer/Supplier/	Distributor information
Manufacturer	
Company name	HILLYARD INDUSTRIES
Address	302 North Fourth St.
	St. Joseph, MO 64501

Contact person	Regulatory Affairs
Telephone number	(816) 233-1321 (Ext. 8285)
Fax	(816) 383-8485
E-mail	regulatoryaffairs@hillyard.com
Emergency telephone #	(800) 424-9300
	(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals)

### 2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 4
Health hazards	Skin corrosion/irritation	Category 1B
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	

Signal word	Danger		
Hazard statement	Combustible liquid. Causes severe skin burns and eye damage.		
Precautionary statement			
Prevention	Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Keep away from heat/sparks/open flames/hot surfaces. No smoking.		
Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse. In case of fire: Use CO2, dry chemical, or foam for extinction.		
Storage	Store locked up. Store in a well-ventilated place. Keep cool.		
Disposal	Dispose of contents/container to an approved waste disposal plant.		

Hazard(s) not otherwise classified (HNOC)

**Supplemental information** None.

### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Silicate(2-), hexafluoro-, dihydr	ogen	16961-83-4	5
Isopropanol		67-63-0	3
Other components below report	rtable levels		92

Other components below reportable levels

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Remove victim from immediate source of exposure to fresh air. If breathing is difficult, administer oxygen if available. If victim is not breathing, administer CPR. If individual experiences nausea, headache, or dizziness, get immediate medical attention.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person.
Most important symptoms/effects, acute and delayed	Corrosive. Contact may cause severe eye irritation, eye burns, and permanent eye damage. Contact may cause severe skin irritation, skin burns, and permanent skin damage. Harmful if inhaled. May cause severe irritation and burns of the nose, throat, and respiratory tract. Harmful or fatal if swallowed. May cause severe irritation and burns of the mouth, throat and digestive tract. Symptoms of overexposure may include ulceration of the nose and throat, coughing, salivation, headache, fatigue, dizziness, nausea, shock, and pulmonary edema (accumulation of fluid around the lungs). May lead to coma or death. Onset of symptoms may be delayed. Prolonged or repeated overexposure to fluoride compounds may cause fluorosis. Fluorosis is characterized by skeletal changes, consisting of osteosclerosis (hardening or abnormal density of bone) and osteomalacia (softening of bones) and by mottled discoloration of the enamel of teeth (if exposure occurs during enamel formation). Symptoms may include bone and joint pain and limited range of motion. Conditions aggravated by exposure may include skin and respiratory (asthma-like) disorders.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed. Beware of late onset of pulmonary edema for up to 48 hours. Treat severe burns similar to hydrofluoric acid exposure.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
	Note to physician: Beware of late onset of pulmonary edema for up to 48 hours. Treat severe burns similar to hydrofluoric acid exposure.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.
	Contact with metals may evolve flammable hydrogen gas. Keep container cool with water, using fog nozzles, as decomposition will occur above 222°F and produce toxic and corrosive fumes of fluoride.
	Hazardous combustion products: When heated to decomposition (222°F), it emits highly toxic and corrosive fumes of hydrofluoric acid, silicon tetrafluoride and hydrogen gas. Oxides of sulfur. Carbon oxides. Nitrogen oxides (NOx).

Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Combustible liquid.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling	Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Keep containers tightly closed and properly labeled. Containers that have been emptied will retain product residue and should be handled as if they were full. Store in a cool, dry, well-ventilated place away from incompatible materials. Wash hands before eating, drinking, using tobacco, applying make-up or using the toilet. Do not store, use, and/or consume foods, beverages,

tobacco in areas where this product is stored. Keep away from heat, sparks and open flame.

Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

JS. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.100 Components Type		Value	
Isopropanol (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
US. ACGIH Threshold Limit Value	6		
Components	Туре	Value	
Isopropanol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Components	Туре	Value	
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3	
		500 ppm	
	TWA	980 mg/m3	
		400 ppm	

ACGIH Biological Expos Components	Value	Determinant	Specimen	Sampling Time
Isopropanol (CAS 67-63-0	) 40 mg/l	Acetone	Urine	*
* - For sampling details, pl	ease see the source	document.		
Appropriate engineering controls	applicable, use maintain airbor established, m	e process enclosures, lo me levels below recom	cal exhaust vent mended exposure o an acceptable	ates should be matched to conditions. If illation, or other engineering controls to e limits. If exposure limits have not been level. Eye wash facilities and emergency
Individual protection measur	es, such as person	al protective equipme	ent	
Eye/face protection	Avoid contact v	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).		
Skin protection				
Hand protection	Wear appropria	ate chemical resistant g	loves.	
Other	Wear protectiv	Wear protective gloves and protective clothing.		
Respiratory protection	protection shou airborne contai	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.		
Thermal hazards	None known.			
General hygiene considerations	after handling t		eating, drinking,	onal hygiene measures, such as washing and/or smoking. Routinely wash work ants.

### 9. Physical and chemical properties

Appearance	Opaque, pink liquid
Physical state	Liquid.
Form	Liquid.
Color	Pink
Odor	Light floral odor
Odor threshold	Not available.
рН	2 - 2.6 (1% solution)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	140.0 - 150.0 °F (60.0 - 65.6 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.032 at 77°F
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	8.59 lb/gal

Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	84.9 - 85.5 %
VOC	Not available

### 10. Stability and reactivity

Reactivity Chemical stability	The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Avoid contact with metals, stoneware, strong acids and alkalies, explosives, toxicants, readily oxidizable materials, alkali metals, combustible solids, and organic peroxides.
Hazardous decomposition products	When heated to decomposition (222°F), it emits highly toxic and corrosive fumes of hydrofluoric acid, silicon tetrafluoride and hydrogen gas.

### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns. May be fatal if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

#### Information on toxicological effects

Not known.	
Species	Test Results
Rabbit	426700 mg/kg
Rat	8600 mg/kg
Species	Test Results
Rabbit	12800 mg/kg
Rat	4.7 g/kg
en (CAS 16961-83-4)	
Rat	430 mg/kg
be based on additional component data not shown.	
Causes severe skin burns and eye damage.	
Causes serious eye damage.	
n	
Not a respiratory sensitizer.	
This product is not expected to cause skin sensitiz	ation.
	Species   Rabbit   Rat   Species   Rabbit   Rat   en (CAS 16961-83-4)   Rat   be based on additional component data not shown. Causes severe skin burns and eye damage. Causes serious eye damage.   n

Material name: SOUR / SOFT HIL00114 Version #: 02 Revision date: 10-29-2020 Issue date: 11-03-2017

Germ cell mutagenicity	No data available to indicate product or any compor mutagenic or genotoxic.	nents present at greater than 0.1% are
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Not listed.	ed Substances (29 CFR 1910.1001-1053) ogram (NTP) Report on Carcinogens	
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive	or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	
12. Ecological information	ı	
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
	7.5% of the mixture consists of components(s) of ur	nknown hazards to the aquatic environment.
Components	Species	Test Results
Isopropanol (CAS 67-63-0) Aquatic		
Fish	LC50 Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
Persistence and degradability Bioaccumulative potential Partition coefficient n-octan Isopropanol	nol / water (log Kow) 0.05	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone potential, endocrine disruption, global warming pote	
13. Disposal consideration	ns	
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused		
products	Dispose of in accordance with local regulations. Em product residues. This material and its container mu Disposal instructions).	
products Contaminated packaging	product residues. This material and its container mu	ust be disposed of in a safe manner (see: ue, follow label warnings even after container is
•	product residues. This material and its container mu Disposal instructions). Since emptied containers may retain product residu emptied. Empty containers should be taken to an ap disposal. Do not re-use empty containers.	ust be disposed of in a safe manner (see: ue, follow label warnings even after container is
Contaminated packaging	product residues. This material and its container mu Disposal instructions). Since emptied containers may retain product residu emptied. Empty containers should be taken to an ap disposal. Do not re-use empty containers.	ust be disposed of in a safe manner (see: ue, follow label warnings even after container is
Contaminated packaging 14. Transport information	product residues. This material and its container mu Disposal instructions). Since emptied containers may retain product residu emptied. Empty containers should be taken to an ap disposal. Do not re-use empty containers.	ust be disposed of in a safe manner (see: ue, follow label warnings even after container is
Contaminated packaging 14. Transport information DOT UN number UN proper shipping name Transport hazard class(es)	product residues. This material and its container mu Disposal instructions). Since emptied containers may retain product residu emptied. Empty containers should be taken to an ap disposal. Do not re-use empty containers. UN1778 Fluorosilicic acid, solution	ust be disposed of in a safe manner (see: ue, follow label warnings even after container is
Contaminated packaging 14. Transport information DOT UN number UN proper shipping name	product residues. This material and its container mu Disposal instructions). Since emptied containers may retain product residu emptied. Empty containers should be taken to an ap disposal. Do not re-use empty containers.	ust be disposed of in a safe manner (see: ue, follow label warnings even after container is

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Label(s)

Packing group Special precautions for user Special provisions Packaging exceptions Packaging non bulk Packaging bulk	II Not available. A6, A7, B2, B15, IB2, N3, N34, T8, TP2, TP12 None 202 242
UN number	UN1778
UN proper shipping name	Fluorosilicic acid, solution
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	11
Environmental hazards	No.
ERG Code	8L
Special precautions for user Other information	Not available.
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1778
UN proper shipping name Transport hazard class(es)	FLUOROSILICIC ACID, SOLUTION
Class	8
Subsidiary risk	-
Packing group	11
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
Special precautions for user	•
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.
DOT	



IATA; IMDG



## 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control A	Act (TSCA)	
TSCA Section 12(b) Exp	port Notification (40 CFR 707, Subpt. D)	
Not regulated.		
CERCLA Hazardous Substa	nce List (40 CFR 302.4)	
Not listed. SARA 304 Emergency relea	se notification	
Not regulated. OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1053)	
Not listed.		
Superfund Amendments and Re	authorization Act of 1986 (SARA)	
SARA 302 Extremely hazard		
Not listed.		
SARA 311/312 Hazardous chemical	Yes	
Classified hazard categories	Flammable (gases, aerosols, liquids, or solids) Skin corrosion or irritation Serious eye damage or eye irritation	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List	
Not regulated. Clean Air Act (CAA) Section	112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
FEMA Priority Substance	ces Respiratory Health and Safety in the Flavor Manufacturing Wo	orkplace
Isopropanol (CAS 67	7-63-0) Low priority	
US state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 ( is not known to contain any chemicals currently listed as carcinoger	
California Proposition 65		
US. California. Candida subd. (a))	te Chemicals List. Safer Consumer Products Regulations (Cal. Co	ode Regs, tit. 22, 69502.3,
Isopropanol (CAS 67	7-63-0)	
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China -	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
	nents of this product comply with the inventory requirements administered by t components of the product are not listed or exempt from listing on the inventor	

# 16. Other information, including date of preparation or last revision

Issue date	11-03-2017
Revision date	10-29-2020

Version # HMIS® ratings	02 Health: 3 Flammability: 2 Physical hazard: 0
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Revision information	This document has undergone significant changes and should be reviewed in its entirety.