

SAFETY DATA SHEET

1. Identification

Product identifier SOUR / SOFT 70

Other means of identification

SDS number 256 HIL03531 **Product code**

Recommended use Fabric Softener, Neutralizer, Iron Control Agent.

Recommended restrictions For Labeled Use Only Manufacturer/Importer/Supplier/Distributor information

Manufacturer

HILLYARD INDUSTRIES Company name **Address** 302 North Fourth St. St. Joseph, MO 64501

Contact person Regulatory Affairs

Telephone number (816) 233-1321 (Ext. 8285)

Fax (816) 383-8485

regulatoryaffairs@hillyard.com E-mail

(800) 424-9300 **Emergency telephone #**

(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

Hazard statement Combustible liquid. Causes severe skin burns and eye damage.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wear protective

gloves/protective clothing/eye protection/face protection. Do not breathe

dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after

handling.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off Response

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. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician. Immediately call a POISON CENTER or doctor/physician. Immediately call a POISON CENTER or doctor/physician. 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)

7.5% of the mixture consists of ingredient(s) of unknown toxicity

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Ingestion

| Chemical name | Common name and synonyms | CAS number | % |
|---------------------------------------|--------------------------|------------|----|
| Silicate(2-), hexafluoro-, dihydrogen | | 16961-83-4 | 5 |
| Isopropanol | | 67-63-0 | 3 |
| Other components below rep | oortable levels | | 92 |

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

4. First-aid measures

Remove victim from immediate source of exposure to fresh air. If breathing is difficult, administer Inhalation

oxygen if available. If victim is not breathing, administer CPR. If individual experiences nausea,

headache, or dizziness, get immediate medical attention.

Skin contact Immediately flush with water for at least 15-20 minutes while removing contaminated clothing and shoes, paying particular attention to skin under the nails. Always get medical attention no matter

how minor skin burns appear. Wash contaminated clothing before reuse, but destroy contaminated

shoes.

Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if Eve contact

present and easy to do. Continue rinsing. Call a physician or poison control center immediately. 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, fatique, 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 Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

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).

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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.

equipment/instruction
Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

Combustible liquid.

6. Accidental release measures

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.

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.

Recover as much material as possible into containers for disposal or reuse. Remaining material may be diluted with water and neutralized. Flush spill area with water. Neutralization products, both solid and liquid, must be recovered for disposal. Provide ventilation and be wary of hydrogen generated upon contact with some metals.

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

Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Value

8. Exposure controls/personal protection

Occupational exposure limits

Components

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.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | туре | value | |
|--|---------------|------------|--|
| Isopropanol (CAS 67-63-0) | PEL | 980 mg/m3 | |
| | | 400 ppm | |
| US. ACGIH Threshold Limit Value | 9 S | | |
| Components | Туре | Value | |
| Isopropanol (CAS 67-63-0) | STEL | 400 ppm | |
| | TWA | 200 ppm | |
| US. NIOSH: Pocket Guide to Cher | nical Hazards | | |
| Components | Туре | Value | |
| Isopropanol (CAS 67-63-0) | STEL | 1225 mg/m3 | |
| | | 500 ppm | |
| | | | |

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Components Type Value

TWA

980 mg/m3 400 ppm

Biological limit values

ACGIH Biological Exposure Indices

| Components | Value | Determinant | Specimen | Sampling Time |
|--------------------------|-----------|-------------|----------|---------------|
| Isopropanol (CAS 67-63-0 |) 40 mg/l | Acetone | Urine | * |

^{* -} For sampling details, please see the source document.

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide adequate ventilation. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

Respiratory protection 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

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Opaque, pink liquid

Physical stateLiquid.FormLiquid.ColorPink.

Odor Downy Sunrise
Odor threshold Not available.

pH 2 - 2.6 (1% Solution)

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point 150.0 °F (65.6 °C) Closed Cup

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits
Explosive limit - lower (%) Not available.
Explosive limit - upper (%) Not available.

Vapor pressure

Vapor density

Relative density

Not available.

Not available.

1.032 at 77°F

Solubility(ies)

Solubility (water) Soluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available. **Viscosity** Not available.

Other information

Density8.59 lb/galExplosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.Percent volatile84.9 - 85.5 %VOCNot available

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Contact with 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.

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.

4.7 g/kg

Information on toxicological effects

Acute toxicity Not known.

| Product | Species | Test Results |
|---------------------------|---------|--------------|
| SOUR / SOFT 70 | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | 426700 mg/kg |
| Oral | | |
| LD50 | Rat | 8600 mg/kg |
| Components | Species | Test Results |
| Isopropanol (CAS 67-63-0) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | 12800 mg/kg |

LD50 Rat
Silicate(2-), hexafluoro-, dihydrogen (CAS 16961-83-4)

Acute Oral

Oral

LD50 Rat 430 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

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^{*} Estimates for product may be based on additional component data not shown.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (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.

Prolonged inhalation may be harmful. **Chronic effects**

12. Ecological information

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 unknown hazards to the aquatic environment.

| Components | Species | Test Results |
|---------------------------|---------|--------------|
| Isopropanol (CAS 67-63-0) | | |

Aquatic

LC50 > 1400 mg/l, 96 hours Fish Bluegill (Lepomis macrochirus)

Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

0.05 Isopropanol

No data available. Mobility in soil

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

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.

Dispose in accordance with all applicable regulations. Local disposal 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. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

^{*} Estimates for product may be based on additional component data not shown.

14. Transport information

DOT

UN number UN1778

Fluorosilicic acid **UN** proper shipping name

Transport hazard class(es)

Class 8 Subsidiary risk Label(s) 8 Packing group Ш

Special precautions for user Not available.

A6, A7, B2, B15, IB2, N3, N34, T8, TP2, TP12 **Special provisions**

Packaging exceptions None 202 Packaging non bulk 242 Packaging bulk

IATA

UN number UN1778

UN proper shipping name Fluorosilicic acid

Transport hazard class(es)

Class 8 Subsidiary risk Ш **Packing group Environmental hazards** No. **ERG Code** 8L

Special precautions for user Not available.

Other information

Passenger and cargo

aircraft

Cargo aircraft only

Allowed with restrictions. Allowed with restrictions.

Not established.

IMDG

UN number UN1778

UN proper shipping name FLUOROSILICIC ACID

Transport hazard class(es) Class 8 Subsidiary risk Ш Packing group

Environmental hazards

Marine pollutant No. F-A, S-B **EmS** Special precautions for user Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT





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 Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard

Flammable (gases, aerosols, liquids, or solids)

Skin corrosion or irritation categories

Yes

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

Not regulated.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Isopropanol (CAS 67-63-0) Low priority

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material **US** state regulations is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

California Proposition 65

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3,

subd. (a))

Isopropanol (CAS 67-63-0)

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 |

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Country(s) or region Inventory name On inventory (yes/no)*

Europe European Inventory of Existing Commercial Chemical

Substances (EINECS)

European List of Notified Chemical Substances (ELINCS) Yes Europe

Japan Inventory of Existing and New Chemical Substances (ENCS) No Existing Chemicals List (ECL)

Philippines Philippine Inventory of Chemicals and Chemical Substances No

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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

Issue date 11-16-2017 **Revision date** 10-29-2020

Version # 02

Korea

Health: 3 **HMIS®** ratings

Flammability: 2 Physical hazard: 0

Disclaimer No representations or warranties, either express or implied, of merchantability, fitness for a

particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user

assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

Identification: Recommended restrictions **Revision information**

Hazard(s) identification: Prevention First-aid measures: Ingestion First-aid measures: Inhalation First-aid measures: Skin contact First-aid measures: General information

Fire-fighting measures: Specific hazards arising from the chemical

Accidental release measures: Methods and materials for containment and cleaning up

Physical & Chemical Properties: Multiple Properties

Ecological information: Ecotoxicity

Disposal considerations: Contaminated packaging

HazReg Data: International Inventories

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Yes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).