

# SAFETY DATA SHEET

## 1. Identification

Product identifier SOUR / SOFT 70

Other means of identification

256 SDS number

Product code HII 03531

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 (800) 365-1555 (Ext. 8206)

Fax (816) 383-8406

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

**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.

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. 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**

Chemical name	Common name and synonyms	CAS number	%
Fluorosilicic acid		16961-83-4	5
Isopropanol		67-63-0	3
Other components below reportable levels			92

<sup>\*</sup>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 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.

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.

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## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

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

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

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 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.

#### 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.

Material name: SOUR / SOFT 70

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

Value Components Type

PFI Isopropanol (CAS 67-63-0) 980 mg/m3

400 ppm

**US. ACGIH Threshold Limit Values (TLV)** 

Components Value **Type** 

Isopropanol (CAS 67-63-0) **STEL** 400 ppm

> **TWA** 200 ppm

NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Value Components **Type** Isopropanol (CAS 67-63-0) **IDLH** 2 %

2000 ppm

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

Components Type

STEL Isopropanol (CAS 67-63-0) 1225 mg/m3

500 ppm

**TWA** 980 mg/m3

400 ppm

### **Biological limit values**

**ACGIH Biological Exposure Indices (BEI)** 

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

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.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory Respiratory protection

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 state Liquid. **Form** Liquid. Color Pink.

Odor **Downy Sunrise Odor threshold** Not available.

2 - 2.6 (1% Solution) pН

Not available. Melting point/freezing point

SDS US Material name: SOUR / SOFT 70 HIL03531 Version #: 03 Revision date: 06-05-2025 Issue date: 11-16-2017

<sup>\* -</sup> For sampling details, please see the source document.

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 Not available. Vapor density Not available.

1.032 at 77°F Relative density

Solubility(ies)

Solubility (water) Soluble

Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. **Viscosity** Not available.

Other information

**Density** 8.59 lb/gal **Explosive properties** Not explosive. Oxidizing properties Not oxidizing 84.9 - 85.5 % Percent volatile VOC Not available

# 10. Stability and reactivity

Reactivity The 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

reactions

Hazardous polymerization does not occur.

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

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

**Acute toxicity** Not known.

**Product** Species **Test Results** 

SOUR / SOFT 70

**Acute** 

Dermal

LD50 Rabbit 426667 mg/kg

Oral

LD50 Rat 8600 mg/kg **Test Results Species** 

Components

Fluorosilicic acid (CAS 16961-83-4)

**Acute** Oral

LD50 Rat 430 mg/kg

Isopropanol (CAS 67-63-0)

**Acute** 

**Dermal** 

LD50 Rabbit 12800 mg/kg

Inhalation

LC50 Rat 51.05 mg/l, 8 Hours

Oral

LD50 Rat 4710 mg/kg

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

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

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

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

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

**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.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Product** Species **Test Results** 

SOUR / SOFT 70

**Aquatic** 

Acute

Fish LC50 Fish 46666.668 mg/l, 96 hours estimated

**Species** Components **Test Results** 

Isopropanol (CAS 67-63-0)

**Aquatic** Acute

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

#### 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.

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. 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).

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

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

disposal. Do not re-use empty containers.

## 14. Transport information

DOT

UN1778 UN number

Fluorosilicic acid **UN proper shipping name** 

Transport hazard class(es)

Class 8 **Subsidiary hazard** Label(s) 8 Packing group Ш **Environmental hazards** 

> Marine pollutant No.

Special precautions for user Not assigned.

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

Packaging exceptions None Packaging non bulk 202 Packaging bulk 242

IATA

UN number UN1778

UN proper shipping name Fluorosilicic acid

Transport hazard class(es)

**Class** 8 **Subsidiary hazard** Packing group Ш

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Environmental hazards** No. **ERG Code** 8L

Special precautions for user Not assigned.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

**IMDG** 

**UN** number UN1778

FLUOROSILICIC ACID UN proper shipping name

Transport hazard class(es)

Class 8 Subsidiary hazard Packing group Ш

**Environmental hazards** 

Marine pollutant No. F-A, S-B **EmS** Special precautions for user Not assigned. Transport in bulk according to Not established. Annex II of MARPOL 73/78 and

the IBC Code

#### 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 Act (TSCA)** 

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

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

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

Classified hazard

chemical

Flammable (gases, aerosols, liquids, or solids)

categories Skin corrosion or irritation

Yes

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

**Chemical name CAS** number % by wt. 67-63-0 3 Isopropanol

#### 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

**US** state regulations California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material

is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) 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).

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

11-16-2017 Issue date 06-05-2025 Revision date

Version # 03

**HMIS®** ratings Health: 3

> Flammability: 2 Physical hazard: 0

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#### Disclaimer

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**Revision information** 

Physical & Chemical Properties: Multiple Properties

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