

Revision Number: 001.2 Issue date: 09/11/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE C-IC SMUTGO NC AERO IDH number: 597213

known as TURCO LIQUID SMUT-GO

NC

Product type: Rust dissolver

Restriction of Use: None identified Region: United States

Company address:Contact information:Henkel CorporationTelephone: (860) 571-5100

One Henkel Way

MEDICAL EMERGENCY Phone: Poison Control Center

Rocky Hill, Connecticut 06067

1-877-671-4608 (toll free) or 1-303-592-1711

TRANSPORT EMERGENCY Phone: CHEMTREC

TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW HARMFUL IF SWALLOWED.

DANGER: HARMFUL IF SWALLOWED.
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

MAY CAUSE CANCER.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
CARCINOGENICITY	1A





### **Precautionary Statements**

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**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Do not breathe vapors, mist, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, eye protection,

and face protection. Use personal protective equipment as required.

Response: If SWALLOWED: Immediately call poison control or physician if you feel unwell. IF

SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. IF exposed or concerned: Get medical attention. Immediately call a poison control center or physician. Wash contaminated clothing before

reuse.

Storage: Store locked up.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Ferric sulfate	10028-22-5	30 - 60
Nitric acid	7697-37-2	5 - 10
Sodium hydrogendifluoride	1333-83-1	1 - 5
Sulfuric acid	7664-93-9	0.1 - 1

<sup>\*</sup> Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections

### 4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If not

breathing, give artificial respiration. Get medical attention.

Skin contact: Rinse with large amounts of running water. GET MEDICAL ATTENTION

IMMEDIATELY! If iced 0.13% benzalkonium chloride (Zephiran) solution or 2.5% calcium gluconate gel are available, the rinsing may be limited to 5 minutes, with the soaks or gel applied as soon as the rinsing is stopped. If benzalkonium chloride or calcium gluconate gel is not available, rinsing must

continue until medical treatment is provided.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15

minutes, and seek immediate medical attention.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Give

one to two glasses of water or milk. Never give anything by mouth to a victim

who is unconscious or is having convulsions.

Symptoms: See Section 11.

Notes to physician: Treatment of hypocalcemia associated with corrosive fluoride compounds

exposure may be corrected by intravenous calcium gluconate or calcium chloride. Treatment of hypomagnesemia may be corrected by intravenous

magnesium sulfate.

# 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Use media appropriate for surrounding material.

Special firefighting procedures: Fire fighters should wear full-face, self contained breathing apparatus and

impervious protective clothing. Fire fighters should avoid inhaling any

combustion products.

Unusual fire or explosion hazards: This product is an aqueous mixture which will not burn.

**Hazardous combustion products:** May liberate hydrogen fluoride.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Contain spill. Wear

appropriate personal protective equipment. Do not allow product to enter

sewer or waterways.

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Clean-up methods: Collect spilled material with an inert absorbent such as sand or vermiculite.

Place in properly labeled closed container. Thoroughly wash the area with water after a spill or leak clean-up. Dispose of according to Federal, State and

local governmental regulations.

### 7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Provide adequate ventilation. Avoid

breathing vapors or mists of this product. Keep container closed. Wash

thoroughly after handling. Do not reuse the empty container.

Storage: For safe storage, store between 40 °F (4.4 °C) and 100 °F (37.8 °C)

Keep the container tightly closed and in a cool, well-ventilated place.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ferric sulfate	1 mg/m3 TWA (as Fe)	None	None	None
Nitric acid	2 ppm TWA 4 ppm STEL	2 ppm (5 mg/m3) PEL	None	None
Sodium hydrogendifluoride	2.5 mg/m3 TWA (as F)	2.5 mg/m3 PEL (as F) 2.5 mg/m3 TWA Dust.	None	None
Sulfuric acid	0.2 mg/m3 TWA Thoracic fraction.	1 mg/m3 PEL	None	None

Engineering controls: Provide local and general exhaust ventilation to effectively remove and

prevent buildup of any vapors or mists generated from the handling of this

product.

Respiratory protection: If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or

vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

**Eye/face protection:** Wear chemical goggles; face shield (if splashing is possible).

Skin protection: Chemical resistant, impermeable gloves. Use of impervious apron and boots

are recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:dark brownOdor:AcidicOdor threshold:Not available.

**pH**: < 2

Vapor pressure: 20 mm hg Boiling point/range: > 100 °C (> 212°F) Melting point/ range: Not determined Specific gravity: 1.30 - 1.34 Vapor density: Not determined Flash point: Not applicable Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not determined **Evaporation rate:** Not determined Solubility in water: Complete Partition coefficient (n-octanol/water): Not determined

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VOC content:Not applicableViscosity:Not available.Decomposition temperature:Not available.

## 10. STABILITY AND REACTIVITY

**Stability**: Stable at normal conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

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May liberate hydrogen fluoride.

Incompatible materials: Avoid contact with iron, aluminum, zinc, copper and strong bases.

Reactivity: Not available.

**Conditions to avoid:** Heat. Contact with most metals produces highly flammable hydrogen gas.

## 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

### Potential Health Effects/Symptoms

Inhalation: Mists, vapors or liquid may cause severe irritation or burns. Contains fluorides. Exposure to

fluorides over years may cause fluorosis.

Skin contact: Corrosive to the skin. Contact with the skin or mucous membranes may cause severe irritation

and burns. Liquid or vapor can cause fluoride-type irritation or burns which may not be

immediately painful or visible.

Eye contact: This product is severely irritating to the eyes and may cause irreversible damage including

burns and blindness.

**Ingestion:** This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Ferric sulfate	None	Eyes, Gastrointestinal, Irritant, Liver, Lung, Metabolic, Vascular	
Nitric acid	Inhalation LC50 (RAT, 30 min) = 334 mg/l Inhalation LC50 (RAT, 30 min) = 244 mg/l Inhalation LC50 (RAT, 30 min) = 138 mg/l Inhalation LC50 (RAT, 4 h) = 65 mg/l	Irritant, Corrosive, Lung, Teeth	
Sodium hydrogendifluoride	Oral LD50 (RAT) = 80 mg/kg	Blood, Cardiac, Central nervous system, Corrosive, Gastrointestinal, Irritant, Kidney, Metabolic, Muscle, Mutagen, Teeth, Less weight gain and food intake.	
Sulfuric acid	Inhalation LC50 (RAT, 1 h) = 347 mg/l	Carcinogen, Corrosive, Irritant, Lung	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ferric sulfate	No	No	No
Nitric acid	No	No	No
Sodium hydrogendifluoride	No	No	No
Sulfuric acid	Known To Be Human Carcinogen	Group 1	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** No data available.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: This product, if discarded directly, would be a characteristic RCRA corrosive

waste (D002).

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (FERRIC SULPHATE, Nitric acid)

Hazard class or division: 8 Identification number: UN 3264 Packing group: Ш

DOT Hazardous Substance(s): Ferric sulfate, Sodium bifluoride

International Air Transportation (ICAO/IATA)

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (FERRIC SULPHATE, Nitric acid)

Hazard class or division: UN 3264 Identification number: Packing group: Ш

Water Transportation (IMO/IMDG)

Hazard class or division:

Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (FERRIC SULPHATE, Nitric

acid)

Identification number: UN 3264

Packing group:

## 15. REGULATORY INFORMATION

**United States Regulatory Information** 

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: Nitric acid (CAS# 7697-37-2). CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). Nitric acid (CAS# 7697-37-2).

Ferric sulfate (CAS# 10028-22-5) 1,000 lbs. (454 kg) **CERCLA Reportable quantity:** 

Sodium hydrogendifluoride (CAS# 1333-83-1) 100 lbs. (45.4 kg)

Nitric acid (CAS# 7697-37-2) 1,000 lbs. (454 kg)

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

**Canada Regulatory Information** 

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**CEPA DSL/NDSL Status:** All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: Reviewed MSDS. Reissued with new date.

Prepared by: John DiCerbo, Sr. Regulatory Affairs Specialist

**Issue date:** 09/11/2014

IDH number: 597213

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