

# SAFETY DATA SHEET HARDCOAT TYPE III

1. Identification

**Product identifier** 

Product name HARDCOAT TYPE III

Product number 5025

Recommended use of the chemical and restrictions on use

Application Industrial Use

Details of the supplier of the safety data sheet

Supplier SIFCO Applied Surface Concepts

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U.S.A.

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Emergency telephone number

Emergency telephone CHEMTREC (United States) (800) 424-9300; CHEMTREC (International) +1 703-527-3887

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Skin Corr. 1A - H314 Eye Dam. 1 - H318

Environmental hazards Not Classified

Label elements

**Pictogram** 



Signal word Danger

**Hazard statements** H314 Causes severe skin burns and eye damage.

## HARDCOAT TYPE III

**Precautionary statements** P260 Do not breathe vapor/ spray.

P264 Wash contaminated skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/ container in accordance with national regulations. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P270 Do not eat, drink or smoke when using this product.

P284 [In case of inadequate ventilation] wear respiratory protection. P301+P310 If swallowed: Immediately call a poison center/ doctor.

P302+P352 If on skin: Wash with plenty of water.

Contains 19.8%

#### Other hazards

This product does not contain any substances classified as PBT or vPvB.

#### 3. Composition/information on ingredients

#### **Mixtures**

SULPHURIC ACID 19.8%	15-20%
SULPHURIC ACID 19.6%	15-20%

CAS number: 7664-93-9

## Classification

Skin Corr. 1A - H314 Eye Dam. 1 - H318

FERROUS SULPHATE 1-5%

CAS number: 7720-78-7

# Classification

Not Classified

The full text for all hazard statements is displayed in Section 16.

# 4. First-aid measures

# Description of first aid measures

**Inhalation** Move affected person to fresh air at once. Get medical attention.

**Ingestion** Get medical attention immediately. Do not induce vomiting.

Skin Contact Remove contaminated clothing immediately and wash skin with soap and water. Continue to

rinse for at least 15 minutes and get medical attention.

**Eye contact** Remove affected person from source of contamination. Rinse immediately with plenty of

water. Continue to rinse for at least 15 minutes and get medical attention.

## Most important symptoms and effects, both acute and delayed

**Inhalation** Coughing, chest tightness, feeling of chest pressure.

Ingestion May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.

**Skin contact** May cause serious chemical burns to the skin.

**Eye contact** Causes severe burns. May cause serious eye damage.

## HARDCOAT TYPE III

## Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

# 5. Fire-fighting measures

**Extinguishing media** 

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

## Special hazards arising from the substance or mixture

**Specific hazards** Corrosive gases or vapors.

Advice for firefighters

Protective actions during

firefighting

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

Special protective equipment

for firefighters

Use protective equipment appropriate for surrounding materials.

#### 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Personal precautions Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of

vapors. Provide adequate general and local exhaust ventilation.

**Environmental precautions** 

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. Inform the relevant

authorities if environmental pollution occurs (sewers, waterways, soil or air).

# Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots,

clothing or apron, as appropriate. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect and dispose of spillage as

indicated in Section 13. Wash thoroughly after dealing with a spillage.

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11

for additional information on health hazards. See Section 12 for additional information on

ecological hazards. For waste disposal, see Section 13.

## 7. Handling and storage

## Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapors and spray/mists.

Provide adequate general and local exhaust ventilation.

# Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from

freezing and direct sunlight.

Storage class Corrosive storage.

Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

# 8. Exposure Controls/personal protection

# Control parameters

## Occupational exposure limits

## HARDCOAT TYPE III

#### **SULPHURIC ACID 19.8%**

Long-term exposure limit (8-hour TWA): ACGIH 0.2 mg/m³ thoracic fraction

Long-term exposure limit (8-hour TWA): OSHA 1 mg/m<sup>3</sup>

A2

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

A2 = Suspected Human Carcinogen.

#### **Exposure controls**

# Protective equipment







Appropriate engineering

controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapor or mist.

Eye/face protection

Tight-fitting safety glasses.

Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. It is recommended that gloves are made of the following material: Nitrile rubber.

Other skin and body

protection

Appropriate footwear and additional protective clothing complying with an approved standard

should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash at the end of each work shift and

before eating, smoking and using the toilet.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

#### 9. Physical and Chemical Properties

# Information on basic physical and chemical properties

Appearance Liquid.

Color Green.

Odor No characteristic odor.

**pH** pH (concentrated solution): 0-1

Relative density 1.17-1.19 @ 20°C

Other information Not available.

# 10. Stability and reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous

reactions

Not determined.

## HARDCOAT TYPE III

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

Materials to avoid Strong alkalis.

Hazardous decomposition

products

None at ambient temperatures.

## 11. Toxicological information

## Information on toxicological effects

**Inhalation** Vapors irritate the respiratory system.

Ingestion Causes severe burns. May cause chemical burns in mouth, esophagus and stomach.

**Skin Contact** May cause serious chemical burns to the skin.

**Eye contact** Causes serious eye damage. Immediate first aid is imperative.

Acute and chronic health

hazards

May cause burns in mucous membranes, throat, esophagus and stomach.

Route of entry Ingestion Inhalation Skin and/or eye contact

## Toxicological information on ingredients.

## **SULPHURIC ACID 19.8%**

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 2,140.0

mg/kg)

Species Rat

**ATE oral (mg/kg)** 2,140.0

**FERROUS SULPHATE** 

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 1,480.0

mg/kg)

Species Rat

# 12. Ecological Information

**Ecotoxicity** The product components are 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.

**Toxicity** No data available.

# Ecological information on ingredients.

## **SULPHURIC ACID 19.8%**

Acute toxicity - fish LC50, 96 hours: 42 mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, : 29 mg/l, Daphnia magna

# HARDCOAT TYPE III

Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bio-Accumulative Potential The product does not contain any substances expected to be bioaccumulating.

Mobility in soil

**Mobility** The product is soluble in water.

Other adverse effects

Other adverse effects Not determined.

# 13. Disposal considerations

## Waste treatment methods

**General information** Disposal of this product, process solutions, residues and by-products should at all times

comply with the requirements of environmental protection and waste disposal legislation and

any local authority requirements.

**Disposal methods**Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

## 14. Transport information

# **UN Number**

**UN No. (TDG)** 2796

**UN No. (IMDG)** 2796

UN No. (ICAO) 2796

**UN No. (DOT)** 2796

# UN proper shipping name

Proper shipping name (TDG) SULPHURIC ACID or BATTERY FLUID, ACID

Proper shipping name (IMDG) SULPHURIC ACID or BATTERY FLUID, ACID

Proper shipping name (ICAO) SULPHURIC ACID or BATTERY FLUID, ACID

Proper shipping name (DOT) SULPHURIC ACID or BATTERY FLUID, ACID

# Transport hazard class(es)

TDG class 8

TDG label(s) 8

IMDG Class 8

ICAO class/division 8

#### Transport labels



# Packing group

TDG Packing Group II

IMDG packing group III

# HARDCOAT TYPE III

ICAO packing group

DOT packing group

**Environmental hazards** 

**Environmentally Hazardous Substance** 

No.

Special precautions for user

**EmS** F-A, S-B

Transport in bulk according to No information required.

Annex II of MARPOL 73/78

and the IBC Code

# 15. Regulatory information

## **US Federal Regulations**

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Sulphuric Acid 1000 lbs

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

Sulphuric Acid

Final CERCLA RQ: 1000 lbs

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Sulphuric Acid EPCRA RQ: 1000 lbs

SARA 313 Emission Reporting

Exempt.

**CAA Accidental Release Prevention** 

Exempt.

SARA (311/312) Hazard Categories

Acute Chronic

**OSHA Highly Hazardous Chemicals** 

Exempt.

Inventories

US - TSCA

All ingredients are present.

# 16. Other information

# HARDCOAT TYPE III

Classification abbreviations Acu

and acronyms

Acute Tox. = Acute toxicity Carc. = Carcinogenicity

Eye Dam. = Serious eye damage

Eye Irrit. = Eye irritation Flam. Liq. = Flammable liquid Muta. = Germ cell mutagenicity

Resp. Sens. = Respiratory sensitisation

Skin Corr. = Skin corrosion Skin Irrit. = Skin irritation Skin Sens. = Skin sensitisation

STOT RE = Specific target organ toxicity-repeated exposure STOT SE = Specific target organ toxicity-single exposure

Revision date 10/3/2017

Revision 3

Hazard statements in full H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

NFPA - instability hazard Normally stable. (0)

**NFPA - health hazard** Extremely hazardous, serious injury. (3)

NFPA - flammability hazard Will not burn. (0)

The Information in this data sheet is believed to be correct but neither we nor our employees or agents give any warranty or make any representation to the accuracy thereof and accept no liability for any loss, injury or damage which may result in it's use. The sole purpose of this data sheet is to provide guidance on the safe handling and use of the products to which it relates. It does not form part of any product specification nor part of any contract. It is not practical for the guidance and information in this data sheet to cover every conceivable application of a product and as we may not be aware of the use to which the products covered by this data sheet are to be put it remains the responsibility of the user to conduct it's own tests and to satisy itself as to the suitability of the product.