

Safety Data Sheet (HazCom 2012)
SOCOSURF TCS

Safety Data Sheet date: 4/3/2024, version 3

1. IDENTIFICATION**Product identifier**

Mixture identification:

Trade name: SOCOSURF TCS

Other means of identification:

SDS code: P61808

Recommended use of the chemical and restrictions on use

Recommended use:

Passivation

Industrial uses

Restrictions on use:

No uses advised against are identified.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party**Manufacturers:**

Socomore SASU

Zone Industrielle du Prat - CS 23707 - 56037 VANNES CEDEX - France

Tel : +33 (0)2 97 43 76 83 - Fax : +33 (0)2 97 54 50 26

Socomore Ireland Ltd. - Meenane, Watergrasshill, Co. Cork, Ireland - Tel +353 21 4889922 / Fax +353 21 4889923 / ireland@socomore.com

Distributors:

Dysol Inc. - 5475 E. State Highway 114, Rhome Texas, 76078 / Phone: 1-817-335-1826 / csr-na@socomore.com/ Fax Number: 817-335-2405

Socomore Canada Limited - Unit 204, 6741 Cariboo Road, Burnaby V3N 4A3, British Columbia, Canada / Email: csr-ca@socomore.com / Phone: +1 604 420 7707 / Fax: +1 604 420 7701

Competent person responsible for the safety data sheet:

techdirsocomore@socomore.com

Emergency phone number:

CHEMTEL: +1-813-248-0585 (International); 1-800-255-3924 (USA)

2. HAZARD(S) IDENTIFICATION**Classification of the chemical**

⚠ Warning, Eye Irrit. 2A, Causes serious eye irritation.

Label elements

Hazard pictograms:



Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

Safety Data Sheet (HazCom 2012) SOCOSURF TCS

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves and eye/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

>= 1% - < 3% DIPOTASSIUM HEXAFLUOROZIRCONATE

REACH No.: 01-2119978269-18, CAS: 16923-95-8, EC: 240-985-6

⚠ A.1/3/Oral Acute Tox. 3 H301

⚠ A.3/1 Eye Dam. 1 H318

US-HAE/C3 Aquatic Chronic 3 H412

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting. Obtain a medical examination.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or

Safety Data Sheet (HazCom 2012) SOCOSURF TCS

safety data sheet if possible).

Treatment:

No particular treatment.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Unsuitable extinguishing media

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties: Not Relevant

Oxidizing properties: Not Relevant

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

Methods and materials for containment and cleaning up

Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not use on extensive surface areas in premises where there are occupants.

Don't use empty container before they have been cleaned.

Before making transfer operations, ensure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Safety Data Sheet (HazCom 2012) SOCOSURF TCS

Storage temperature:
Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

DIPOTASSIUM HEXAFLUOROZIRCONATE - CAS: 16923-95-8
- OEL Type: National - TWA: 2.5 mg/m³ - Notes: France - Indicative réglementaire
- OEL Type: TWA - TWA: 2.5 mg/m³ - Notes: EU - Indicative
- OEL Type: National - TWA: 5 mg/m³ - STEL: 10 mg/m³ - Notes: WEL (Great Britain)

DNEL Exposure Limit Values

DIPOTASSIUM HEXAFLUOROZIRCONATE - CAS: 16923-95-8
Worker Industry: 6.2 mg/m³ - Worker Professional: 6.2 mg/m³ - Exposure: Human
Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 6.2 mg/m³ - Worker Professional: 6.2 mg/m³ - Exposure: Human
Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 6.2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local
effects
Worker Industry: 89 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term,
systemic effects
Worker Industry: 89 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Short Term,
systemic effects

PNEC Exposure Limit Values

DIPOTASSIUM HEXAFLUOROZIRCONATE - CAS: 16923-95-8
Target: Fresh Water - Value: 0.163 mg/l
Target: Marine water - Value: 0.163 mg/l
Target: Freshwater sediments - Value: 28.86 mg/kg
Target: Marine water sediments - Value: 5.77 mg/kg
Target: Soil (agricultural) - Value: 22.5 mg/kg
Target: Microorganisms in sewage treatments - Value: 1.77 mg/l

Appropriate engineering controls:

None

Individual protection measures

Eye protection:

Safety goggles (EN 166)

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Safety Data Sheet (HazCom 2012)
SOCOSURF TCS

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Clear	--	--
Odour:	N.A.	--	--
Odour threshold:	N.A.	--	--
pH:	2.5	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	100°C	--	--
Flash Point (°F):	Not Relevant	--	--
Flash point (°C):	Not Relevant	--	--
Evaporation rate:	Not Relevant	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	Not Relevant	--	--
Relative density:	Not Relevant	--	--
Solubility in water:	Not Relevant	--	--
Solubility in oil:	Not Relevant	--	--
Partition coefficient (n-octanol/water):	Not Relevant	--	--
Auto-ignition temperature:	Not Relevant	--	--
Decomposition temperature:	Not Relevant	--	--

Safety Data Sheet (HazCom 2012)

SOCOSURF TCS

Viscosity:	Not Relevant	--	--
Explosive properties:	Not Relevant	--	--
Oxidizing properties:	Not Relevant	--	--

9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	Not Relevant	--	--
Fat Solubility:	Not Relevant	--	--
Conductivity:	Not Relevant	--	--
Substance Groups relevant properties	N.A.	--	--

Volatile Organic compounds - VOCs = 0 g/l

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Stable under normal conditions

Possibility of hazardous reactions

None

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the product:

SOCOSURF TCS

Acute toxicity

Not classified

Based on available data, the classification criteria are not met

ATEmix - Oral 3367 mg/kg bw

Skin corrosion/irritation

Not classified

Safety Data Sheet (HazCom 2012) SOCOSURF TCS

Based on available data, the classification criteria are not met

Serious eye damage/irritation

The product is classified: Eye Irrit. 2A H319

Respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

Carcinogenicity

Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

Aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

DIPOTASSIUM HEXAFLUOROZIRCONATE - CAS: 16923-95-8

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 25 mg/kg

Test: LD50 - Route: Oral - Species: Rat < 200 mg/kg

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

None.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

SOCOSURF TCS

Not classified for environmental hazards

Based on available data, the classification criteria are not met

DIPOTASSIUM HEXAFLUOROZIRCONATE - CAS: 16923-95-8

Safety Data Sheet (HazCom 2012)
SOCOSURF TCS

a) Aquatic acute toxicity:

Endpoint: NOEC - Species: Algae = 0.1 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

Endpoint: EC50 - Species: Algae = 10.66 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

Endpoint: NOEC - Species: Daphnia = 100 mg/l - Duration h: 48

Endpoint: EC50 - Species: Daphnia = 151.4 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 172 mg/l - Duration h: 96 - Notes: Danio rerio

Endpoint: NOEC - Species: Fish = 100 mg/l - Duration h: 96 - Notes: Danio rerio

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

No harmful effects expected.

13. DISPOSAL CONSIDERATIONS**Waste treatment and disposal methods**

Recover if possible. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

UN number

Not classified as dangerous in the meaning of ADR, IATA and IMDG transport regulations.

UN proper shipping name

N.A.

Transport hazard class(es)

N.A.

Packing group

N.A.

Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

N.A.

Special precautions

N.A.

15. REGULATORY INFORMATION**USA - Federal regulations**

TSCA - Toxic Substances Control Act

TSCA inventory: all the components are listed on the TSCA inventory or are not required to

Safety Data Sheet (HazCom 2012) SOCOSURF TCS

be listed on the TSCA.

TSCA sections for substances listed in section 3:

DIPOTASSIUM HEXAFLUOROZIRCONATE is listed in TSCA Section 8b.

SARA - Superfund Amendments and Reauthorization Act

Section 302 Extremely Hazardous Substances: no substances listed.

Section 304 Hazardous substances: DIPOTASSIUM HEXAFLUOROZIRCONATE.

Section 313 Toxic chemical list: no substances listed.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: DIPOTASSIUM HEXAFLUOROZIRCONATE -

Reportable quantity: 1000 pounds.

Reportable quantity for mixture: 63694.26752 pounds.

CAA - Clean Air Act

CAA listed substances:

None.

CWA - Clean Water Act

CWA listed substances:

DIPOTASSIUM HEXAFLUOROZIRCONATE is listed in CWA Section 311.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

None.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

DIPOTASSIUM HEXAFLUOROZIRCONATE.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

DIPOTASSIUM HEXAFLUOROZIRCONATE.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

DIPOTASSIUM HEXAFLUOROZIRCONATE.

The following substance(s) in this product has/have an identification by CAS number either in countries not affected by the REACH regulation or in regulations not yet updated to reflect the new naming convention for hydrocarbon solvents:

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H301 Toxic if swallowed.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Sections modified from the previous revision:

1. IDENTIFICATION

Safety Data Sheet (HazCom 2012) SOCOSURF TCS

- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION

According to TSCA section 3(2)(B)(i) : a hydrated form of a chemical substance is considered a mixture of the corresponding anhydrous form and water.

Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.

Safety Data Sheet (HazCom 2012) SOCOSURF TCS

STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average

Safety Data Sheet date: 4/3/2024, version 3