

# **SAFETY DATA SHEET**

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS #: 086459 SPIRIT 7000

Date of the previous version: 2016-11-21 Revision Date: 2017-01-23 Version 2

1. IDENTIFICATION

**Product identifier** 

Product name SPIRIT 7000

Other means of identification

Product Code(s) 086459

NumberFIESubstance/mixtureMixture

Recommended use of the chemical and restrictions on use

**Identified uses** semi-synthetic. Metalworking fluid.

**Uses advised against**Do not use for any purpose other than the one for which it is intended

Details of the supplier of the safety data sheet

Supplier Address TOTAL Specialties USA Inc

1201 Louisiana Street, Suite 1800

Houston, TX 77002 Phone: +1 800 323 3198

Contact Point Technical/ HSEQ

E-mail Address USRMLIN-info@total.com

Emergency telephone number

Company Phone Number +1 (908) 862-9300

Emergency telephone +1 866 928 0789 (24h/24, 7d/7) +1 215 207 0061 (24h/24, 7d/7)

# 2. HAZARDS IDENTIFICATION

### Classification

Skin corrosion/irritation - Category 2 Serious eye damage/eye irritation - Category 2B

Label elements



Date of the previous version: 2016-11-21 Revision Date: 2017-01-23 Version 2



#### **WARNING**

Causes skin irritation Causes eye irritation

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

Specific treatment (see Section 4 on this label)

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

### Skin

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

# **Unknown Acute Toxicity**

No information available

# Hazards not otherwise classified (HNOC)

None known

Other information

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

**Environmental properties** Should not be released into the environment.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# <u>Mixture</u>

Chemical Name	CAS-No	Weight %
TRIETHANOLAMINE	102-71-6	1-<3
Ethanolamine	141-43-5	1-<2,5



Date of the previous version: 2016-11-21 Revision Date: 2017-01-23 Version 2

# 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

EMERGENCY MEDICAL CARE. Do not get in eyes, on skin, or on clothing. Show this

material safety data sheet to the doctor in attendance.

Eye contact Rinse immediately with plenty of water and seek medical advice. Keep eye wide open while

rinsing.

**Skin contact** Remove contaminated clothing and shoes. Wash off with soap and water. Wash

contaminated clothing before reuse.

**Inhalation** Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper

respiratory tract.

Ingestion If swallowed, do not induce vomiting - seek medical advice.

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

**Skin contact** Causes skin irritation.

**Eye contact** Causes eye irritation.

Inhalation Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory

system.

Ingestion Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

**Symptoms** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Itching.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u> Foam. Carbon dioxide (CO<sub>2</sub>). ABC powder.

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

Special Hazard Incomplete combustion and thermolysis may produce gases of varying toxicity such as

carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may

be highly dangerous if inhaled in confined spaces or at high concentration.

**Explosion Data** 

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

None.



Date of the previous version: 2016-11-21 Revision Date: 2017-01-23 Version 2

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Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

#### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

General Information Do not touch or walk through spilled material. Contaminated surfaces will be extremely

slippery. Avoid contact with the skin and the eyes. Use personal protective equipment.

**Other information** See Section 12 for additional information.

Environmental precautions

**General Information** Do not allow material to contaminate ground water system. Local authorities should be

advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses. See Section 12 for additional Ecological Information.

#### Methods and material for containment and cleaning up

Methods for cleaning up Dam up. Soak up with inert absorbent material. Keep in suitable, closed containers for

disposal. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use mechanical means such as pumps and

absorbent materials.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling When using, do not eat, drink or smoke. For personal protection see section 8. Use only in

well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes

and clothing.

**Hygiene measures** Regular cleaning of equipment, work area and clothing is recommended. Ensure the

application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Wash hands with water as a precaution. Avoid breathing vapors, mist or gas. Avoid prolonged and repeated contact with the skin, especially with used or waste product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product

contaminated rags into workwear pockets.

#### Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture. Keep in properly labeled containers.



Date of the previous version: 2016-11-21 Revision Date: 2017-01-23 Version 2

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Materials to Avoid Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
TRIETHANOLAMINE	TWA 5 mg/m <sup>3</sup>	-	
102-71-6			
Ethanolamine	STEL 6 ppm	TWA: 3 ppm	IDLH: 30 ppm
141-43-5	TWA 3 ppm	TWA: 6 mg/m <sup>3</sup>	TWA: 3 ppm
		(vacated) TWA: 3 ppm	TWA: 8 mg/m <sup>3</sup>
		(vacated) TWA: 8 mg/m <sup>3</sup>	STEL: 6 ppm
		(vacated) STEL: 6 ppm	STEL: 15 mg/m <sup>3</sup>
		(vacated) STEL: 15 mg/m <sup>3</sup>	_

#### **Exposure controls**

Engineering Measures Apply technical measures to comply with the occupational exposure limits. When working in

confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for

breathing and wear the recommended equipment.

#### Individual protection measures, such as personal protective equipment

General Information Protective engineering solutions should be implemented and in use before personal

protective equipment is considered.

**Eye/face protection** If splashes are likely to occur, wear:. Safety glasses with side-shields.

**Skin and body protection** Wear suitable protective clothing. Protective shoes or boots.

Hand Protection Rubber gloves. Impervious gloves. Please observe the instructions regarding permeability

and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

danger of cuts, abrasion, and the contact time.

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.



Date of the previous version: 2016-11-21 Revision Date: 2017-01-23 Version 2

Hygiene measures

Regular cleaning of equipment, work area and clothing is recommended. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Wash hands with water as a precaution. Avoid breathing vapors, mist or gas. Avoid prolonged and repeated contact with the skin, especially with used or waste product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical and chemical properties

AppearancecrystallineColoramberPhysical State @20°Cliquid

Odor Mild

Odor Threshold No information available

PropertyValuesRemarksMethodpHNot applicable

pH (as aqueous solution) 9.3 solution (5 %)

Melting point/range No information available

Boiling point/boiling range > 105 °C > 221 °F

Flash point Not applicable

Evaporation rate

No information available

Flammability Limits in Air

No information available

upper - No information available

Lower - No information available Vapor Pressure - No information available

Vapor densityNo information availableRelative density1.01@ 15 °C

**Density** 1010 kg/m³ @ 15 °C Water solubility soluble

Solubility in other solventsNo information availablelogPowNo information availableAutoignition temperatureNo information available

Decomposition temperatureNo information availableViscosity, kinematicNo information availableExplosive propertiesNot explosive

Oxidizing Properties

Oxidizing Properties

Possibility of hazardous reactions

Not applicable

Not applicable

**Other information** 

Specific Gravity 1.01 @ 15 °C

Freezing Point No information available

Pour point No information available



Date of the previous version: 2016-11-21 Revision Date: 2017-01-23 Version 2

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# 10. STABILITY AND REACTIVITY

**Reactivity** No information available.

**Chemical stability** Stable under recommended storage conditions.

Possibility of hazardous reactions None under normal processing.

<u>Conditions to Avoid</u> Heat, flames and sparks. Take precautionary measures against static discharges. Heat

(temperatures above flash point), sparks, ignition points, flames, static electricity. Strong

oxidizing agents.

**Incompatible materials** Strong oxidizing agents.

Hazardous Decomposition Products Incomplete combustion and thermolysis may produce gases of varying toxicity such as

carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Principle Routes of Exposure** Inhalation, Ingestion, Eye contact, Skin contact.

**Symptoms** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Itching.

**Skin contact** Causes skin irritation.

**Eye contact** Causes eye irritation.

**Inhalation** Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory

system.

Ingestion Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

# Acute toxicity - Product Information

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

Oral No known effect based on information supplied

**Dermal** Not classified

Inhalation Not classified

### **Acute toxicity - Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
TRIETHANOLAMINE	LD50 8000 mg/kg (Rat)	LD50 > 20000 mg/kg (Rabbit)	
102-71-6	LD50 5300 mg/kg (Guinea Pig)		



Date of the previous version: 2016-11-21 Revision Date: 2017-01-23 Version 2

Ethanolamine LD50 1089-1515 mg/kg bw (Rat) LD50 1100 mg/kg (Rabbit) 141-43-5

**Sensitization** Not classified as a sensitizer. Contains sensitizer(s).

**Carcinogenicity** This product is not classified carcinogenic.

**Mutagenicity** This product is not classified as mutagenic.

**Reproductive toxicity**This product does not present any known or suspected reproductive hazards.

Aspiration Hazard Not classified.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Acute aquatic toxicity - Product Information

No experimental data available

## Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and	Toxicity to
			other aquatic invertebrates	microorganisms
TRIETHANOLAMINE		LC50(96h) 10610 - 13010	EC50(48h) 565.2 - 658.3	
102-71-6		mg/l (Pimephales promelas)	mg/l (Ceriodaphnia dubia)	
			LC50 (24h) 2038 mg/l	
			(Daphnia magna)	
Ethanolamine	EC50(72h) 2.1-2.8 mg/l	LC50(96h) 349 mg/l	EC50(48h) 65 mg/L Daphnia	EC50 = 13.7 mg/L 30 min
141-43-5		, ,	magna	EC50 = 110 mg/L 17 h EC50
			_	= 12200 mg/L 2 h

### Chronic aquatic toxicity - Product Information

No experimental data available

**Chronic aquatic toxicity - Component Information** 

No information available

**Effects on terrestrial organisms** No experimental data available .

Persistence and degradability

**General Information** No information available.

Bioaccumulative potential



Date of the previous version: 2016-11-21 Revision Date: 2017-01-23 Version 2

**Product Information** No information available.

logPow No information available

**Component Information** 

Chemical Name	log Pow
Ethanolamine	-2.31.31 @ 25 °C & pH 6.8-7.3
141-43-5	

**Mobility** 

**Soil** No information available

Other adverse effects

**General Information** 

Volatile organic compounds (VOC) content (SCAQMD ASTM 1868-10) : <100 g/l

concentrate; <10 g/l at maximum recommended dilution of 10%.

# 13. DISPOSAL CONSIDERATIONS

**Waste treatment** 

Waste Disposal Methods Dispose of in accordance with local regulations.

**Contaminated packaging** Dispose of in accordance with local regulations.

### 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

MEX Not regulated

ICAO/IATA Not regulated

IMDG/IMO Not regulated

ADR/RID Not regulated

ADN Not regulated

### 15. REGULATORY INFORMATION



Date of the previous version: 2016-11-21 Revision Date: 2017-01-23 Version 2

following inventories: U.S.A. (TSCA) Canada (DSL/NDSL)

### **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute Health Hazard

Chronic Health Hazard

Fire Hazard

Sudden Release of Pressure Hazard

No
Reactive Hazard

No

### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
TRIETHANOLAMINE	102-71-6	1-<3		Group I		
Ethanolamine	141-43-5	1-<2,5		Group I		

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

# U.S. State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois
Ethanolamine 141-43-5	X	X	X	X
TRIETHANOLAMINE 102-71-6	X	X	X	



Date of the previous version: 2016-11-21 Revision Date: 2017-01-23 Version 2

2 iodo 2 propunul

3-iodo-2-propynyl	X	
butylcarbamate		
33400-33-0		

### **16. OTHER INFORMATION**

NFPA Health Hazard 2 Flammability 0 Instability 0 Physical and chemical

hazards -

Health Hazard 2 Flammability 0 Physical Hazard 0 Personal protection X

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

Revision Date: 2017-01-23

Revision Note \*\*\* Indicates updated section

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

## Legend

Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S\* - Skin notation

TSCA - Toxic Substance Control Act

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the



Date of the previous version: 2016-11-21 Revision Date: 2017-01-23 Version 2

user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

**End of the Safety Data Sheet**