# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** Stor-X® Fuel Stabilizer

Other means of identification

Product code 402815 Recommended use Fuel stabilizer Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

CRC Industries, Inc. Company name

885 Louis Dr. **Address** 

Warminster, PA 18974 US

Telephone

**General Information** 215-674-4300 **Technical** 800-521-3168

**Assistance** 

**Customer Service** 800-272-4620 24-Hour Emergency 800-424-9300 (US)

703-527-3887 (International) (CHEMTREC) Website www.crcindustries.com

## 2. Hazard(s) identification

Physical hazards Flammable liquids Category 3 **Health hazards** Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1 Sensitization, skin Category 1

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

**Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word Danger

Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. **Hazard statement** 

May cause an allergic skin reaction. Causes serious eye damage. May cause drowsiness or

dizziness.

**Precautionary statement** Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection.

> SDS US 1 / 10

Material name: Stor-X® Fuel Stabilizer

Response If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair):

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. If inhaled: Remove

person to fresh air and keep comfortable for breathing. Call a POISON CENTER or

doctor/physician if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. In case of fire: Do not use water jet as an extinguisher, as this will spread the fire.

Storage Disposal Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

## 3. Composition/information on ingredients

lixtures			
Chemical name	Common name and synonyms	CAS number	%
Stoddard Solvent		8052-41-3	90 - 100
2-Butoxyethanol		111-76-2	1 - 3
Distillates (petroleum), hydrotreated light		64742-47-8	1 - 3

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

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Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.	
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. Get medical attention immediately.	
Ingostion	Call a physician or poison control contar immediately. Pince mouth. Do not induce yemiting. If	

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal 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.

General information

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

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

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

media

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

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.

General fire hazards

Flammable liquid and vapor.

#### 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. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

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. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

# **Environmental precautions**

## 7. Handling and storage

Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get in eyes, on skin, or on clothing. Avoid breathing mist or vapor. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. 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. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

US. OSHA Table Z-1 Limits for A Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
,		50 ppm	
Stoddard Solvent (CAS 8052-41-3)	PEL	2900 mg/m3	
,		500 ppm	
US. ACGIH Threshold Limit Valu	ies		
Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
Stoddard Solvent (CAS 8052-41-3)	TWA	100 ppm	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3	
,		5 ppm	
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	100 mg/m3	
Stoddard Solvent (CAS 8052-41-3)	Ceiling	1800 mg/m3	
332 11 0)	TWA	350 mg/m3	

#### **Biological limit values**

#### **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

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

#### **Exposure guidelines**

US - California OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2-Butoxyethanol (CAS 111-76-2) Skin designation applies.

US - Tennessee OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

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

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) 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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Wear protective gloves such as: Neoprene. Nitrile. Polyvinyl chloride (PVC). **Hand protection** 

Other Wear appropriate chemical resistant clothing.

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a Respiratory protection

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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. Contaminated work clothing should not

be allowed out of the workplace.

## 9. Physical and chemical properties

**Appearance** 

Liquid. **Physical state Form** Liquid. Color Red. Petroleum. Odor **Odor threshold** Not available. Not available.

-103 °F (-75 °C) estimated Melting point/freezing point Initial boiling point and boiling

range

278.6 °F (137 °C) estimated

105 °F (40.6 °C) Tag Closed Cup Flash point

**Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

0.5 % estimated Flammability limit - lower

(%)

Flammability limit - upper

(%)

10.6 % estimated

0.8 hPa estimated Vapor pressure

Vapor density > 4 (air = 1)

Relative density 0.78

Solubility (water) Negligible. Not available. Partition coefficient

(n-octanol/water)

410 °F (210 °C) estimated **Auto-ignition temperature** 

Not available. **Decomposition temperature Viscosity (kinematic)** Not available. Percent volatile 100 % estimated

# 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

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

Carbon oxides. Hydrocarbons.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Eve contact Causes serious eye damage.

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Headache. May cause drowsiness and dizziness. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin

reaction. Dermatitis. Rash.

#### Information on toxicological effects

May be fatal if swallowed and enters airways. Narcotic effects. May cause an allergic skin **Acute toxicity** 

reaction.

**Product Species Test Results** 

Stor-X® Fuel Stabilizer

Acute

**Dermal** 

LD50 Rabbit 3.2 g/kg estimated

Inhalation

LC50 Rat 44997 ppm, 4 hours estimated

199 mg/l estimated

Oral

LD50 Rat 5.3 g/kg estimated

Skin corrosion/irritation Causes skin irritation.

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

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

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

mutagenic or genotoxic.

Carcinogenicity

Risk of cancer cannot be excluded with prolonged exposure.

## IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

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

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** 

May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vomiting,

may cause chemical pneumonia, pulmonary injury or death.

**Chronic effects** 

May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Prolonged exposure may cause chronic effects.

## 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.

**Product Species Test Results** Stor-X® Fuel Stabilizer

**Aquatic** Acute

Fish LC50 Fish 39055.4023 mg/l, 96 hours estimated

Components **Species Test Results** 

2-Butoxyethanol (CAS 111-76-2)

Aquatic

Acute

EC50 Crustacea Water flea (Daphnia magna) 1550 mg/l, 48 hours Fish LC50 Rainbow trout, donaldson trout >= 1000 mg/l, 96 hours

(Oncorhynchus mykiss)

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Aquatic

Acute

Persistence and degradability

LC50 Fish Fathead minnow (Pimephales promelas) 45 mg/l, 96 hours

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2-Butoxyethanol 0.81, log Pow Stoddard Solvent 3.16 - 7.15

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

No data is available on the degradability of this product.

potential, endocrine disruption, global warming potential) are expected from this component.

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

## 13. Disposal considerations

Disposal of waste from residues / unused products If discarded, this product is considered a RCRA ignitable waste, D001. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all

applicable regulations.

Hazardous waste code

D001: Waste Flammable material with a flash point <140 F

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.

# 14. Transport information

DOT

Road

Not regulated as dangerous goods by ground.

DOT

Air

**UN** number UN1268

**UN** proper shipping name Transport hazard class(es) Petroleum distillates, n.o.s. or Petroleum products, n.o.s., Limited Quantity

Class

Subsidiary risk 3 Label(s) Ш Packing group

Special provisions 144, B1, IB3, T4, TP1, TP29

3

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Packaging exceptions 203 Packaging non bulk 242 Packaging bulk

DOT

**Maritime** 

UN1268 **UN** number

**UN proper shipping name** Transport hazard class(es) Petroleum distillates, n.o.s. or Petroleum products, n.o.s., Limited Quantity

3 Class Subsidiary risk 3 Label(s) Ш **Packing group** 

144, B1, IB3, T4, TP1, TP29 Special provisions

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

150 Packaging exceptions Packaging non bulk 203 242 Packaging bulk

**IATA** 

**UN** number UN1268

UN proper shipping name Transport hazard class(es)

Petroleum products, n.o.s., Limited Quantity

Class 3 Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo Allowed.

aircraft

Cargo aircraft only Allowed.

**IMDG** 

**UN** number **UN1268** 

PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S., LIMITED QUANTITY **UN proper shipping name** 

Transport hazard class(es)

3 Class Subsidiary risk Packing group Ш

**Environmental hazards** 

Marine pollutant No. F-E. S-E

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

# 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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

Not regulated.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

## US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

2-Butoxyethanol (CAS 111-76-2)

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

2-Butoxyethanol (CAS 111-76-2)

## **CERCLA Hazardous Substances: Reportable quantity**

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Listed.

#### 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

(SDWA)

Not regulated.

Food and Drug

Not regulated.

Administration (FDA)

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Section 311/312** Immediate Hazard - Yes Delayed Hazard - No **Hazard categories** Fire Hazard - Yes

Pressure Hazard - No Reactivity Hazard - No

**SARA 302 Extremely** No hazardous substance

#### **US** state regulations

## US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

2-Butoxyethanol (CAS 111-76-2)

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Stoddard Solvent (CAS 8052-41-3)

# US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

#### US. New Jersey Worker and Community Right-to-Know Act

Stoddard Solvent (CAS 8052-41-3)

2-Butoxyethanol (CAS 111-76-2)

## US. Massachusetts RTK - Substance List

2-Butoxyethanol (CAS 111-76-2) Stoddard Solvent (CAS 8052-41-3)

#### US. Pennsylvania Worker and Community Right-to-Know Law

1,2,4-Trimethylbenzene (CAS 95-63-6)

Xylene (CAS 1330-20-7)

2-Butoxyethanol (CAS 111-76-2)

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Stoddard Solvent (CAS 8052-41-3)

#### **US. Rhode Island RTK**

2-Butoxyethanol (CAS 111-76-2)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Benzene (CAS 71-43-2)
Ethylbenzene (CAS 100-41-4)
Naphthalene (CAS 91-20-3)
Listed: February 27, 1987
Listed: June 11, 2004
Listed: April 19, 2002

#### US - California Proposition 65 - CRT: Listed date/Developmental toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997 Toluene (CAS 108-88-3) Listed: January 1, 1991 US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

#### The (OAO 400 00 0)

Toluene (CAS 108-88-3)

Listed: August 7, 2009

Collifornia Brancoikian CF CBT: Listed data/Mala reproductive toxing

# US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997

#### Volatile organic compounds (VOC) regulations

**EPA** 

**VOC content (40 CFR** 97.6 %

51.100(s))

Consumer products

Not regulated

(40 CFR 59, Subpt. C)

State

VOC content (CA) 97.6 %
VOC content (OTC) 97.6 %

## **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	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)

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

Issue date05-21-2015Prepared byAllison Cho

Version # 01

Further information CRC # 587G

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).

HMIS® ratings Health: 3

Flammability: 2 Physical hazard: 0 Personal protection: B

NFPA ratings Health: 3

Flammability: 2 Instability: 0

**NFPA** ratings



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