

SAFETY DATA SHEET

1. Identification

Product identifier	S-2072 Solvent Blend
Other means of identification	
Product code	0300650
Manufacturer information	Superior Oil Company, Inc. 1402 North Capitol Avenue, Suite #100 Indianapolis, IN 46202 US General Information: (317) 781-4400 Chemical Emergency: (317) 781-4470
Recommended use	Solvent
Recommended restrictions	None known.

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Acute toxicity, dermal Category 4	
	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	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	
Hazard statement		
H226	Flammable liquid and vapor.	
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
Precautionary statement		
Prevention		
P262	Do not get in eyes, on skin, or on clothing.	
P261	Avoid breathing vapors or mist.	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P233	Keep container tightly closed.	
P240	Ground/bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/lighting equipment.	
P242	Use only non-sparking tools.	
P243	Take precautionary measures against static discharge.	
P264	Wash thoroughly after handling.	
P271	Use only outdoors or in a well-ventilated area.	

P280		Wear protective gloves/eye protection/face protection.
Response	e	
P301	+ P310	If swallowed: Immediately call a poison center/doctor.
P331		Do NOT induce vomiting.
P303	+ P361 + P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332	+ P313	If skin irritation occurs: Get medical advice/attention.
P304	+ P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312		Call a poison center/doctor if you feel unwell.
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
P370	+ P378	In case of fire: Use appropriate media to extinguish.
Storage		
P235		Keep cool.
P403	+ P233	Store in a well-ventilated place. Keep container tightly closed
Disposal		
P501		Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Petroleum Distillates, Hydro	otreated Light	64742-47-8	60-80
2-Butoxy Ethanol		111-76-2	30-50

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medica advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. 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 if irritation develops and persists.
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	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Diarrhea. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.
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 warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
5. Fire-fighting measures	

Suitable extinguishing mediaWater fog. Alcohol resistant foam. Dry chemical powder. Dry chemicals. Carbon dioxide (CO2).Unsuitable extinguishing
mediaDo not use water jet as an extinguisher, as this will spread the fire.Specific hazards arising from
the chemicalVapors 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. Cool containers exposed to heat with water spray and remove container, if no risk is involved.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Flammable liquid and vapor. Will burn if involved in a fire.
6 Accidental release mea	

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/vapors. 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	Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	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.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
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. 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/vapors. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Keep away from heat and sources of ignition. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

US. OSHA Table Z-1 Limits for Air Components	Туре	Value	
2-Butoxy Ethanol (CAS 111-76-2)	PEL	240 mg/m3	
		50 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	
2-Butoxy Ethanol (CAS 111-76-2)	TWA	20 ppm	

2-Butoxy Ethanol (CAS 111	-76-2) TWA		24	mg/m3
			5 p	ppm
Petroleum Distillates, Hydrotreated Light (CAS 64742-47-8)	TWA		10) mg/m3
logical limit values				
ACGIH Biological Expos		_ . . .		
Components	Value	Determinant	Specimen	Sampling Time
2-Butoxy Ethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
* - For sampling details, ple	ease see the source docu	iment.		
oosure guidelines				
US - California OELs: Ski	in designation			
2-Butoxy Ethanol (CAS US - Minnesota Haz Sub			absorbed throu	gh the skin.
2-Butoxy Ethanol (CAS		Skin de	signation applie	5.
US - Tennessee OELs: S	-			
2-Butoxy Ethanol (CAS US NIOSH Pocket Guide			absorbed throu n	gh the skin.
2-Butoxy Ethanol (CAS			absorbed throu	gh the skin.
US. OSHA Table Z-1 Lim		-	-	
2-Butoxy Ethanol (CAS	111-76-2)	Can be	absorbed throu	gh the skin.
propriate engineering htrols	Explosion-proof general and local exhaust ventilation. Good general ventilation 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 recommende exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.			
lividual protection measu	ires, such as personal	protective equip	ment	
Eye/face protection	Wear safety glasses	with side shields (or goggles). Fac	e shield is recommended if splashing is
Skin protection	possible.		- *	
Hand protection	Wear appropriate ch	emical resistant al	oves.	
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.			
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Chemical respirator with organic vapor cartridge.			
Thermal hazards	Wear appropriate th	ermal protective cl	othing, when ne	cessary.
neral hygiene Isiderations		al and before eatin	g, drinking, and/	nal hygiene measures, such as washing a or smoking. Routinely wash work clothir
Physical and chemic	al nronerties			

Appearance	Clear.
Physical state	Liquid.
Color	Colorless.
Odor	Mild Butyl-like Ether.
рН	Not available.
Melting point/freezing point	Not determined
Initial boiling point and boiling range	318.2 °F (159 °C) estimated

Flash point	105.8 °F (41.0 °C) Lowest Flashing component
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	0.6 % estimated
Flammability limit - upper (%)	10.6 % estimated
Vapor pressure	2.34 hPa @ 20 C (1 hPa = 0.75006 mmHg)
Vapor density	> 1 (Air = 1)
Solubility(ies)	
Solubility (water)	Appreciable.
Auto-ignition temperature	Not determined
Other information	
Pounds per gallon	6.758 lb/gal
Specific gravity	0.811

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. 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. Suitable precautions should be utilized if using this product at temperatures above the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled. May cause drowsiness or dizziness. Headache. Nausea, vomiting.		
Skin contact	Harmful in contact with skin. Causes skin irritation.		
	2-Butoxy ethanol may be absorbed the prolonged. These effects have not be	rough the skin in toxic amounts if contact is repeated and en observed in humans.	
Eye contact	Causes serious eye irritation.		
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	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Diarrhea. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.		
Information on toxicological e	effects		
Acute toxicity	May be fatal if swallowed and enters airways. In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Harmful if inhaled. Harmful in contact with skin.		
Components	Species	Test Results	
2-Butoxy Ethanol (CAS 111-76-2)			
Acute			
Oral			
LD50	Rat	560 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Matavial same C 2072 Calvert Diand			

Respiratory or skin sensitization

Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classifiable as to carcinogenicity to humans.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
2-Butoxy Ethanol (CAS 11 OSHA Specifically Regulate	111-76-2) 3 Not classifiable as to carcinogenicity to humans. ated Substances (29 CFR 1910.1001-1053)		
	ogram (NTP) Report on Carcinogens		
Not listed.			
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects		
Specific target organ toxicity - single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	May be fatal if swallowed and enters airways.		
Chronic effects	Prolonged inhalation may be harmful. 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.		

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.

	possibility that	it large of frequent spills call have a harm	rui or damaging ellect on the environment.
Components		Species	Test Results
2-Butoxy Ethanol (CAS 111-7	'6-2)		
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
Petroleum Distillates, Hydroti	reated Light (CAS	S 64742-47-8)	
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours
Persistence and degradability	No data is ava	ailable on the degradability of any ingredie	ents in the mixture.
Bioaccumulative potential			
Partition coefficient n-oct 2-Butoxy Ethanol	anol / water (log Kow) 0.83	
Mobility in soil	No data availa	No data available.	
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creatior potential.		
13. Disposal considerati	ons		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Local disposal regulations Hazardous waste code	D001: Waste D018: Waste	de should be assigned in discussion betwe	40 F een the user, the producer and the waste

Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
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.

Listed.

14. Transport information

DOT BULK

UN number	NA1993
Proper shipping name	Combustible Liquid, N.O.S., (Petroleum Distillates, Ethylene Glycol Monobutyl Ether)
Hazard class	Combustible Liquid
Packing group	III
ERG code	128

DOT NON-BULK

Not regulated in a container less than 119 gallons.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA) Restrictions of Use

None known

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

2-Butoxy Ethanol (CAS 111-76-2)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure) Aspiration hazard

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
2-Butoxy Ethanol	111-76-2	30-50	

Other federal regulations

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 Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

US state regulations

California Proposition 65



WARNING: This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Benzene (CAS 71-43-2)	Listed: February 27, 1987
Cumene (CAS 98-82-8)	Listed: April 6, 2010
Ethyl Benzene (CAS 100-41-4)	Listed: June 11, 2004
Naphthalene (CAS 91-20-3)	Listed: April 19, 2002

California Proposition 65 - CRT: Listed date/Developmental toxin

Benzene (CAS 71-43-2) Ethylene Glycol (CAS 107-21-1) Toluene (CAS 108-88-3)

Benzene (CAS 71-43-2)

Listed: December 26, 1997 Listed: June 19, 2015 Listed: January 1, 1991

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

Listed: December 26, 1997

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

2-Butoxy Ethanol (CAS 111-76-2) Petroleum Distillates, Hydrotreated Light (CAS 64742-47-8)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
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)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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).

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

Issue date	12-05-2014
Revision date	08-03-2020
Version #	03
Disclaimer	Superior Oil Company, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. This information is based on data available to us and is accurate and reliable to the best of our knowledge at the time of printing. However, no warranty is expressed or implied regarding the accuracy or completeness of the information contained herein. Final determination of the suitability of this material for the use contemplated is the sole responsibility of the user. Buyer assumes all risk and liabilities. Buyer accepts and uses this material on these conditions.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.