



Revision Number: 007.0

Issue date: 04/15/2025

## 1. IDENTIFICATION

<b>Product name:</b>	<b>BONDERITE C-SO 2382-BK AERO</b>	<b>IDH number:</b>	882982
	<b>known as TURCO 4460-BK</b>		
<b>Product type/</b>	Cleaner	<b>Item number:</b>	882982
<b>Recommended use:</b>			
<b>Restriction of Use:</b>	None identified	<b>Region:</b>	United States
<b>Company address:</b>		<b>Contact information:</b>	
Henkel Corporation		Telephone: +1 (860) 571-5100	
One Henkel Way		MEDICAL EMERGENCY Phone: Poison Control Center	
Rocky Hill, Connecticut 06067		1-877-671-4608 (toll free) or 1-303-592-1711	
		TRANSPORT EMERGENCY Phone: CHEMTREC	
		1-800-424-9300 (toll free) or 1-703-527-3887	
		Internet: www.henkelna.com	

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**DANGER:**

H225 - HIGHLY FLAMMABLE LIQUID AND VAPOUR.  
 H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.  
 H315 - CAUSES SKIN IRRITATION.  
 H319 - CAUSES SERIOUS EYE IRRITATION.  
 H336 - MAY CAUSE DROWSINESS OR DIZZINESS.  
 H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	2
SKIN IRRITATION	2
EYE IRRITATION	2A
REPRODUCTIVE TOXICITY	2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
ASPIRATION HAZARD	1

### PICTOGRAM(S)



### Precautionary Statements

#### Prevention:

P201 - Obtain special instructions before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P210 - Keep away from heat, sparks, open flames, hot surfaces - no smoking.  
 P233 - Keep container tightly closed.  
 - No release into water.  
 P241 - Use explosion-proof equipment.  
 P242 - Use non-sparking tools.  
 P243 - Take action to prevent static discharges.  
 P261 - Avoid breathing mist/vapours.  
 P264 - Wash affected area thoroughly after handling.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P280 - Wear protective gloves, clothing, eye and face protection.  
 P301+P310 - IF SWALLOWED: Immediately call a physician or poison control center.  
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing.  
 P304+P340+P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

#### Response:

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contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - IF exposed or concerned: Get medical attention.  
P331 - Do NOT induce vomiting.  
P332+P313 - If skin irritation occurs: Get medical attention.  
P337+P313 - If eye irritation persists: Get medical attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

**Storage:**

**Disposal:**

**Other hazards** Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Weight %*
Toluene	108-88-3	10 - 30
Ethyl acetate	141-78-6	10 - 30
Methyl isobutyl ketone	108-10-1	10 - 30
2-Propanol	67-63-0	5 - 10
n-Heptane	142-82-5	5 - 10

\* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. FIRST AID MEASURES

#### First Aid Measures by likely routes of exposure

<b>Inhalation:</b>	If symptoms are experienced, remove source of contamination or move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.
<b>Skin contact:</b>	For skin contact flush with large amounts of water. Obtain medical attention if irritation persists. Launder contaminated clothing before reuse.
<b>Eye contact:</b>	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
<b>Ingestion:</b>	Get immediate medical attention. Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.
<b>Most important symptoms and effects (acute and delayed):</b>	The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.
<b>Indication of any immediate medical attention / special treatment needed:</b>	If breathing is difficult, give oxygen. This material, if aspirated into the lungs, may cause lipid pneumonitis. Treat affected person appropriately.

### 5. FIRE FIGHTING MEASURES

<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Improper extinguishing agents:</b>	Not available.
<b>Special firefighting procedures:</b>	Wear full protective clothing. Wear self-contained breathing apparatus.
<b>Unusual fire or explosion hazards:</b>	Vapors are heavier than air and may travel to ignition sources and flash back. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition.

**Hazardous combustion products:**

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:**

Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Prevent further leakage or spillage if safe to do so. Contain spill.

**Clean-up methods:**

Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Dispose of according to Federal, State and local governmental regulations. Ventilate area.

## 7. HANDLING AND STORAGE

**Handling:**

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Keep container closed. Provide adequate ventilation. Wash thoroughly after handling. Keep away from heat, spark and flame. Ground and bond all equipment as required (when transferring products). Use non-sparking tools when opening or closing containers.

**Storage:**

Keep the container tightly closed and in a cool, well-ventilated place.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	None	None
Ethyl acetate	400 ppm TWA	400 ppm (1,400 mg/m3) PEL	None	None
Methyl isobutyl ketone	20 ppm TWA 75 ppm STEL	100 ppm (410 mg/m3) PEL	None	None
Solvent naphtha (petroleum), light aliph., <0.1% benzene	(SKIN) 100 ppm TWA	100 ppm (400 mg/m3) PEL	None	None
2-Propanol	200 ppm TWA 400 ppm STEL	400 ppm (980 mg/m3) PEL	None	None
n-Heptane	400 ppm TWA 500 ppm STEL	500 ppm (2,000 mg/m3) PEL	None	None

**Engineering controls:**

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product. Prevent electrostatic charge build-up by using common bonding and grounding techniques.

**Respiratory protection:**

If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

**Eye/face protection:**

Wear chemical goggles; face shield (if splashing is possible).

**Skin protection:**

Chemical resistant, impermeable gloves. Use of impervious apron and boots are recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**

Liquid

**Color:**

White

**Odor:**

Solvent

**Odor threshold:**

Not available.

**pH:**

Not available.

**Vapor pressure:**

45 mm hg calculated

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<b>Boiling point/range:</b>	76.7 °C (170.1 °F)calculated
<b>Melting point/ range:</b>	Not available.
<b>Density/Relative density:</b>	0.81 at 25 °C (77°F)
<b>Relative vapor density:</b>	Not available.
<b>Flash point:</b>	-3.9 °C (24.98 °F) Tagliabue closed cup
<b>Flammable/Explosive limits - lower:</b>	Not applicable
<b>Flammable/Explosive limits - upper:</b>	Not applicable
<b>Autoignition temperature:</b>	Not applicable
<b>Flammability:</b>	Not applicable
<b>Evaporation rate:</b>	Not available.
<b>Solubility:</b>	Appreciable Water
<b>Partition coefficient n-octanol/water (logarithmic value):</b>	Not available.
<b>VOC content:</b>	100 % EPA Method 24
<b>Dynamic viscosity:</b>	Not available.
<b>Kinematic viscosity:</b>	Not available.
<b>Particle characteristics:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at normal conditions.
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Incompatible materials:</b>	Strong acids, alkalies and oxidizing agents.
<b>Reactivity:</b>	Not available.
<b>Conditions to avoid:</b>	Keep away from heat, spark and flame.

## 11. TOXICOLOGICAL INFORMATION

<b>Likely routes of exposure:</b>	Skin, Inhalation, Eyes, Ingestion
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## Potential Health Effects/Symptoms

<b>Inhalation:</b>	Excessive inhalation of this product may cause headache, dizziness, blurred vision, nausea and vomiting. Repeated inhalation may be harmful; lung irritation and serious central nervous system disorders may result.
<b>Skin contact:</b>	This product is irritating to the skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Prolonged contact with skin may cause dermatitis. A component in this product may be absorbed through the skin, especially if skin is damaged.
<b>Eye contact:</b>	This product may be severely irritating to the eyes. Prolonged or repeated contact may worsen irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
<b>Ingestion:</b>	Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal irritation and disturbances. Ingestion of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision. Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis.

Hazardous Component(s)	LD50s and LC50s
Toluene	Oral LD50 (Rat) = 2.6 g/kg Dermal LD50 (Rabbit) = 12,124 mg/kg Inhalation LC50 (Rat, 4 h) = 12.5 - 28.8 mg/l Inhalation LC50 (Rat, 4 h) = 25.7 mg/l Inhalation LC50 (Rat, 4 h) = 28.1 mg/l Inhalation LC50 (Rat, 4 h) = 30 mg/l
Ethyl acetate	Oral LD50 (Rat) = 5.6 g/kg Oral LD50 (Mouse) = 0.44 g/kg
Methyl isobutyl ketone	Oral LD50 (Rat) = 2,080 mg/kg Dermal LD50 (Rabbit) = > 16,000 mg/kg Inhalation LC50 (Rat, 4 h) = > 2000 - < 4000 ppm
2-Propanol	Oral LD50 (Rat) = 5,045 mg/kg Oral LD50 (Mouse) = 3,600 mg/kg Oral LD50 (Rabbit) = 6,410 mg/kg Oral LD50 (Rat) = 4.7 g/kg Oral LD50 (Mouse) = 4.5 g/kg Oral LD50 (Rabbit) = 8.0 g/kg Oral LD50 (Rabbit) = 5.03 g/kg Dermal LD50 (Rabbit) = 12,800 mg/kg
n-Heptane	Inhalation LC50 (Rat, 4 h) = > 73.5 mg/l Inhalation LC50 (Rat, 4 h) = > 29.29 mg/l

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Toluene	Irritant		Behavioral Cardiac Central nervous system Developmental Ear
Ethyl acetate	Irritant		Blood Central nervous system
Methyl isobutyl ketone	Irritant		Central nervous system
2-Propanol	Irritant	Allergen	Central nervous system
n-Heptane	Irritant		Central nervous system

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Toluene	No	No	No
Ethyl acetate	No	No	No
Methyl isobutyl ketone	No	Group 2B	No
2-Propanol	No	Group 1	No
n-Heptane	No	No	No

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available.

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal.

### 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

#### U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** Flammable liquids, n.o.s. (Toluene, Ethyl acetate)  
**Hazard class or division:** 3  
**Identification number:** UN 1993  
**Packing group:** II  
**DOT Hazardous Substance(s):** Toluene, Ethyl acetate

#### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Flammable liquid, n.o.s. (Toluene, Ethyl acetate)  
**Hazard class or division:** 3  
**Identification number:** UN 1993  
**Packing group:** II

#### Water Transportation (IMO/IMDG)

**Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Toluene, Ethyl acetate)  
**Hazard class or division:** 3  
**Identification number:** UN 1993  
**Packing group:** II

### 15. REGULATORY INFORMATION

#### United States Regulatory Information

**TSCA 8 (b) Inventory Status:** All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.

**TSCA 12 (b) Export Notification:** None above reporting de minimis

**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.

**CERCLA/SARA Section 311/312:** Please refer to the GHS classification in Section 2

**CERCLA/SARA Section 313:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Toluene (CAS# 108-88-3). Methyl isobutyl ketone (CAS# 108-10-1). 2-Propanol (CAS# 67-63-0).

**CERCLA Reportable quantity:** Toluene (CAS# 108-88-3) 1,000 lbs. (454 kg)  
Ethyl acetate (CAS# 141-78-6) 5,000 lbs. (2,270 kg)  
Methyl isobutyl ketone (CAS# 108-10-1) 5,000 lbs. (2,270 kg)  
Solvent naphtha (petroleum), light aliph., <0.1% benzene (CAS# 64742-89-8) 100 lbs. (45.4 kg)  
2-Propanol (CAS# 67-63-0) 100 lbs. (45.4 kg)  
n-Heptane (CAS# 142-82-5) 100 lbs. (45.4 kg)  
Benzene (CAS# 71-43-2) 10 lbs. (4.54 kg)

**California Proposition 65:** This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

#### Canada Regulatory Information

**CEPA DSL/NDL Status:** All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

**Prepared by:** Product Safety and Regulatory Affairs

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