Safety Data Sheet

Revision Number: 009.0

Issue date: 12/20/2024

1. IDENTIFICATION

Product name: **BONDERITE S-ST 5351 AERO known as TURCO 5351 (T-5469) *MBO 330GLS**

IDH number: 596971

Product type/ Recommended use: Paint stripping agents

Restriction of Use: None identified

Region: United States

Company address:
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

Contact information:
Telephone: +1 (860) 571-5100
MEDICAL EMERGENCY Phone: Poison Control Center
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
MEDICAL EMERGENCY Phone: Poison Control Center
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TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.henkelna.com

After February 3, 2025, this chemical substance (as defined in TSCA section 3(2))/ product cannot be distributed in commerce to retailers. After January 28, 2026, this chemical substance (as defined in TSCA section 3(2))/product is and can only be distributed in commerce or processed with a concentration of methylene chloride equal to or greater than 0.1% by weight for the following purposes: (1) Processing as a reactant; (2) Processing for incorporation into a formulation, mixture, or reaction product; (3) Processing for repackaging; (4) Processing for recycling; (5) Industrial or commercial use as a laboratory chemical; (6) Industrial or commercial use as a bonding agent for solvent welding; (7) Industrial and commercial use as a paint and coating remover from safety critical, corrosion - sensitive components of aircraft and spacecraft; (8) Industrial and commercial use as a processing aid; (9) Industrial and commercial use for plastic and rubber products manufacturing; (10) Industrial and commercial use as a solvent that becomes part of a formulation or mixture, where that formulation or mixture will be used inside a manufacturing process, and the solvent (methylene chloride) will be reclaimed; (11) Industrial and commercial use in the refinishing for wooden furniture, decorative pieces, and architectural fixtures of artistic, cultural or historic value until May 8, 2029; (12) Industrial and commercial use in adhesives and sealants in aircraft, space vehicle, and turbine applications for structural and safety critical non-structural applications until May 8, 2029; (13) Disposal; and (14) Export.

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER:

H302+H332 - HARMFUL IF SWALLOWED OR IF INHALED.
H314 - CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.
H334 - MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.
H336 - MAY CAUSE DROWSINESS OR DIZZINESS.
H340 - MAY CAUSE GENETIC DEFECTS.
H350 - MAY CAUSE CANCER.
H360 - MAY DAMAGE FERTILITY OR THE UNBORN CHILD.
H373 - MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
ACUTE TOXICITY INHALATION	4
SKIN CORROSION	1C - Corrosive
SERIOUS EYE DAMAGE	1
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
GERM CELL MUTAGENICITY	1B
CARCINOGENICITY	1B
REPRODUCTIVE TOXICITY	1B
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2

PICTOGRAM(S)

Precautionary Statements

Prevention:
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe vapors, mist, or spray.
P264 - Wash affected area thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves, clothing, eye and face protection.
P284 - [In case of inadequate ventilation] wear respiratory protection.

Response:
P301+P312+P330 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing.
P304+P340+P310 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical attention.
P333+P313 - If skin irritation or rash occurs: Get medical attention.
P342+P311 - If experiencing respiratory symptoms: Call a poison center or physician.
P362+P364 - Take off contaminated clothing and wash it before reuse.

Storage:
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.

Disposal:
P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

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 %*
Methylene chloride	75-09-2	30 - 60
Phenol	108-95-2	10 - 30
Sodium dichromate	10588-01-9	0.1 - 1
Propylene oxide	75-56-9	0.1 - 1
Chloroform	67-66-3	0.1 - 1
Methyl chloride	74-87-3	0.1 - 1

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

Non hazardous components

Actual concentration or concentration range is withheld as a trade secret

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

Inhalation:	If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist. If symptoms develop and persist, get medical attention. Delayed effects possible after inhalation. Administer oxygen or artificial respiration as needed. Do not use mouth-to-mouth method if victim ingested or inhaled the substance.
Skin contact:	Remove contaminated clothing and footwear. Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention. Topical 10 % EDTA ointment can be used to treat chromate scabs and skin ulcers. A 10 % ascorbic acid solution may speed healing if applied promptly. Larger exposures may need additional treatment. Launder contaminated clothing before reuse. Discard any shoes or clothing items that cannot be decontaminated.
Eye contact:	Immediately flush affected eye with large amounts of gently flowing water or 0.9% sterile saline solution for at least 15 minutes. Hold eyelid wide open. Get immediate medical attention. Eye flushing should continue during transportation to a doctor.
Ingestion:	Get immediate medical attention. Do not induce vomiting. If individual is conscious, wash out mouth with water. Provide a glass of water to dilute the material in the stomach.
Most important symptoms and effects (acute and delayed):	The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.
Indication of any immediate medical attention / special treatment needed:	Methylene chloride is metabolized to carbon monoxide; the resulting elevated carboxymethemoglobin levels reduce the oxygen-carrying capacity of the blood. This product can induce cardiac sensitization to circulating epinephrine-like compounds.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Improper extinguishing agents:	Not available.
Special firefighting procedures:	Wear full protective clothing. Wear self-contained breathing apparatus.
Unusual fire or explosion hazards:	May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.
Hazardous combustion products:	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Hazardous decomposition products include chlorine compounds. Thermal decomposition products are toxic and include hydrogen chloride and phosgene, in lesser amounts. Chromium oxide. Oxides of Sodium.

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:	Wear appropriate protective equipment and clothing during clean-up. Prevent further leakage or spillage if safe to do so. Ventilate area. Do not allow product to enter sewer or waterways. Isolate area. Keep unnecessary personnel away.
Clean-up methods:	Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapors or mists of this product. Use only with adequate ventilation. Launder work clothes frequently. Do not store or consume food, drink, or tobacco products in areas where they may become contaminated with this material. Do not take internally. For industrial use only.

Storage: For safe storage, store between 40 °F (4.4 °C) and 90 °F (32.2 °C) Keep the container tightly closed and in a cool, well-ventilated place. Open bung slowly to relieve any internal pressure. Store frost-free.

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
Methylene chloride	50 ppm TWA	12.5 ppm OSHA_ACT 25 ppm TWA 125 ppm STEL	None	None
Phenol	5 ppm TWA (SKIN)	5 ppm (19 mg/m3) PEL (SKIN)	None	None
Sodium dichromate	0.0002 mg/m3 TWA (as Cr(VI)) Inhalable fraction. 0.0005 mg/m3 STEL (as Cr(VI)) Inhalable fraction. (SKIN) (as Cr(VI)) Inhalable fraction. 0.0002 mg/m3 TWA (as Cr(VI)) Inhalable fraction. 0.0005 mg/m3 STEL (as Cr(VI)) Inhalable fraction. (Respiratory sensitization) (Dermal sensitization)	0.005 mg/m3 TWA 0.0025 mg/m3 OSHA_ACT 0.1 mg/m3 Ceiling	None	None
Propylene oxide	2 ppm TWA (Dermal sensitization)	100 ppm (240 mg/m3) PEL	None	None
Chloroform	10 ppm TWA	50 ppm (240 mg/m3) Ceiling	None	None
Methyl chloride	50 ppm TWA 100 ppm STEL (SKIN)	100 ppm TWA 200 ppm Ceiling 300 ppm MAX. CONC 5 minutes in any 3 hours	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.

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: Use chemical resistant, impervious gloves and clothing to prevent skin contact. Gloves should be tested to determine suitability for prolonged contact. Use of impervious boots is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Dark, Yellow
Odor:	Acrid
Odor threshold:	Not available.
pH:	9.0 - 11.0
Vapor pressure:	107 mm hg Estimated
Boiling point/range:	40.6 °C (105.1 °F)calculated
Melting point/ range:	Not determined
Density/Relative density:	1.17 - 1.19 at 25 °C (77°F)
Relative vapor density:	> 1
Flash point:	Not applicable
Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Autoignition temperature:	Not determined
Flammability:	Not applicable
Evaporation rate:	< 1 (Butyl acetate = 1)
Solubility:	Appreciable Water
Partition coefficient n-octanol/water (logarithmic value):	Not determined
VOC content:	197 g/l
Dynamic viscosity:	10 - 50 cp
Kinematic viscosity:	Not available.
Particle characteristics:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Thermal decomposition products are toxic and include hydrogen chloride and phosgene, in lesser amounts.
Incompatible materials:	This product may react with strong reducing agents. Keep away from organic and combustible materials. Strong bases. Metals.
Reactivity:	Not available.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation: May be harmful or fatal if inhaled. Nasal itch and soreness, perforation of the nasal septum, dental erosion, and chronic asthmatic bronchitis may result from repeated exposure.

Skin contact: A component in this product may be harmful or fatal if absorbed through the skin, especially if skin is damaged. Mists, vapors or liquid may cause severe irritation or burns. Product contains chromium, which may cause an allergic skin sensitization reaction. Contact with broken skin may lead to formation of firmly marginated "chrome sores".

Eye contact: This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.

Ingestion: Harmful or fatal if swallowed. May cause burns of the mouth, throat and stomach. May also cause gastrointestinal disturbances such as nausea, vomiting, abdominal pain, and diarrhea.

Hazardous Component(s)	LD50s and LC50s
Methylene chloride	Oral LD50 (Rat) = 1,600 mg/kg
Phenol	Oral LD50 (Mouse) = 270 mg/kg Oral LD50 (Rat) = 317 mg/kg Oral LD50 (Rat) = 530 mg/kg Dermal LD50 (Rat) = 669 mg/kg Dermal LD50 (Rabbit) = 850 mg/kg
Sodium dichromate	Oral LD50 (Rat) = 51.10 mg/kg Oral LD50 (Rat) = 51.10 mg/kgDermal LD50 (Rabbit) = 1,000 mg/kg Inhalation LC50 (Rat, 4 h) = 99 mg/m3 Inhalation LC50 (Rat, 4 h) = 200 mg/m3 Inhalation LC50 (Rat, 4 h) = 94 mg/m3 Inhalation LC50 (Rat, 4 h) = 99 mg/m3 Inhalation LC50 (Rat, 4 h) = 104 mg/m3 Inhalation LC50 (Rat, 4 h) = 217 mg/m3 Inhalation LC50 (Rat, 4 h) = 217 mg/m3 Inhalation LC50 (Rat, 4 h) = 167 mg/m3 Inhalation LC50 (Rat, 4 h) = 83 mg/m3 Inhalation LC50 (Rat, 4 h) = 200 mg/m3 Inhalation LC50 (Rat, 4 h) = 99 mg/m3 Inhalation LC50 (Rat, 4 h) = 104 mg/m3 Inhalation LC50 (Rat, 4 h) = 263 mg/m3
Propylene oxide	Oral LD50 (Rat) = 380 mg/kg Dermal LD50 (Rabbit) = 1,245 mg/kg
Chloroform	Oral LD50 (Mouse) = 36 mg/kg Oral LD50 (Rat) = 1,117 mg/kg Oral LD50 (Rat) = 908 mg/kg Oral LD50 (Rabbit) = 9,827 mg/kg Oral LD50 (Rat) = 2,180 mg/kg Oral LD50 (Rat) = 2,180 mg/kg Oral LD50 (Rabbit) = 9,827 mg/kg Oral LD50 (Mouse) = 118 mg/kg Oral LD50 (Rat) = 444 mg/kg Oral LD50 (Rat) = 1,117 mg/kg Oral LD50 (Rat) = 908 mg/kg Oral LD50 (Mouse) = 36 mg/kg Inhalation LC50 (Rat, 4 h) = 47.7 mg/m3
Methyl chloride	Oral LD50 (Rat) = 1,800 mg/kg

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Methylene chloride	Corrosive Irritant		Blood Cardiac Central nervous system Kidney Liver Some evidence of carcinogenicity
Phenol	Corrosive Irritant		Blood Cardiac Developmental Eyes Kidney Liver Mutagen Nervous System Skin Vascular

Sodium dichromate	Corrosive Irritant	Allergen	Blood Central nervous system Carcinogen Developmental Eyes Gastrointestinal Kidney Liver Mutagen Reproductive Respiratory Vascular
Propylene oxide	Corrosive Irritant		Mutagen Nervous System Some evidence of carcinogenicity
Chloroform	Irritant		Behavioral Cardiac Central nervous system Developmental Kidney Liver Reproductive Some evidence of carcinogenicity
Methyl chloride			Behavioral Blood Bone Marrow Brain Developmental Eyes Gastrointestinal Heart Immune system Kidney Liver Lung Mutagen Nervous System Reproductive Skin Spleen

Hazardous Component(s)	**NTP Carcinogen**	**IARC Carcinogen**	**OSHA Carcinogen (Specifically Regulated)**
Methylene chloride	Reasonably Anticipated to be a Human Carcinogen.	Group 2A	Yes
Phenol	No	No	No
Sodium dichromate	Known To Be Human Carcinogen.	Group 1	Yes
Propylene oxide	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No
Chloroform	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No
Methyl chloride	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

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:	Corrosive liquids, toxic, n.o.s. (Phenol, Dichloromethane, Sodium dichromate)
Hazard class or division:	8 (6.1)
Identification number:	UN 2922
Packing group:	III
DOT Hazardous Substance(s):	Sodium bichromate, Chloroform

International Air Transportation (ICAO/IATA)

Proper shipping name:	Corrosive liquid, toxic, n.o.s. (Phenol, Dichloromethane, Sodium dichromate)
Hazard class or division:	8 (6.1)
Identification number:	UN 2922
Packing group:	III

Water Transportation (IMO/IMDG)

Proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (Phenol, Dichloromethane, Sodium dichromate)
Hazard class or division:	8 (6.1)
Identification number:	UN 2922
Packing group:	III
Additional information:	IMDG-Code: Segregation group 18- Alkalis

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 6 Risk Management Rules	After February 3, 2025, this chemical substance (as defined in TSCA section 3(2))/ product cannot be distributed in commerce to retailers. After January 28, 2026, this chemical substance (as defined in TSCA section 3(2))/product is and can only be distributed in commerce or processed with a concentration of methylene chloride equal to or greater than 0.1% by weight for the following purposes: (1) Processing as a reactant; (2) Processing for incorporation into a formulation, mixture, or reaction product; (3) Processing for repackaging; (4) Processing for recycling; (5) Industrial or commercial use as a laboratory chemical; (6) Industrial or commercial use as a bonding agent for solvent welding; (7) Industrial and commercial use as a paint and coating remover from safety critical, corrosion - sensitive components of aircraft and spacecraft; (8) Industrial and commercial use as a processing aid; (9) Industrial and commercial use for plastic and rubber products manufacturing; (10) Industrial and commercial use as a solvent that becomes part of a formulation or mixture, where that formulation or mixture will be used inside a manufacturing process, and the solvent (methylene chloride) will be reclaimed; (11) Industrial and commercial use in the refinishing for wooden furniture, decorative pieces, and architectural fixtures of artistic, cultural or historic value until May 8, 2029; (12) Industrial and commercial use in adhesives and sealants in aircraft, space vehicle, and turbine applications for structural and safety critical non-structural applications until May 8, 2029; (13) Disposal; and (14) Export.
TSCA 12 (b) Export Notification:	Methylene chloride (CAS# 75-09-2).Sodium dichromate (CAS# 10588-01-9).
CERCLA/SARA Section 302 EHS:	Phenol (CAS# 108-95-2). Propylene oxide (CAS# 75-56-9). Chloroform (CAS# 67-66-3). Allylamine (CAS# 107-11-9).
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). Methylene chloride (CAS# 75-09-2). Phenol (CAS# 108-95-2). Sodium dichromate (CAS# 10588-01-9). Propylene oxide (CAS# 75-56-9). Chloroform (CAS# 67-66-3).

CERCLA Reportable quantity: Methylene chloride (CAS# 75-09-2) 1,000 lbs. (454 kg)
Phenol (CAS# 108-95-2) 1,000 lbs. (454 kg)
Sodium dichromate (CAS# 10588-01-9) 10 lbs. (4.54 kg)
Propylene oxide (CAS# 75-56-9) 100 lbs. (45.4 kg)
Chloroform (CAS# 67-66-3) 10 lbs. (4.54 kg)
Methyl chloride (CAS# 74-87-3) 100 lbs. (45.4 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/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: This Safety Data Sheet contains changes from the previous version in Section(s): 14

Prepared by: Product Safety and Regulatory Affairs

Issue date: 12/20/2024

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