SAFETY DATA SHEET

SUPERCORR A AEROSOL

SDS according to the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200), Revision 2024

Section 1. Identification

Product code : 016246-01

Product name : SUPERCORR A AEROSOL

Other means of identification : Not available.

Relevant identified uses of the substance or mixture and uses advised against

Relevant uses : Corrosion inhibitor

Uses advised against : Any other purpose.

Supplier : Engineered Custom Lubricants
3851 Exchange Avenue
Aurora, IL 60504 USA
1-630-449-5000

ProductStewardship@quakerhoughton.com
www.quakerhoughton.com

Emergency telephone number (with hours of operation) : CHEMTREC US/Canada:1-800-424-9300 or 1-703-527-3887 (24 hours)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : GASES UNDER PRESSURE - Compressed gas
ACUTE TOXICITY (inhalation) - Category 4
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : Contains gas under pressure; may explode if heated.
Harmful if inhaled.
Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), lungs)

Section 2. Hazards identification

Precautionary statements

Prevention : Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response : Get medical advice or attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Storage : Protect from sunlight. Store in a well-ventilated place.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Hazards identified when used : No known significant effects or critical hazards.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	Identifiers
trans-dichloroethylene	≥80	156-60-5
Carbon dioxide, gas	≥1 - ≤5	124-38-9
Stoddard solvent	≥0.5 - ≤1.5	8052-41-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Section 4. First aid measures

Description of necessary first aid measures

General advice : Get medical attention. If medical advice is needed, have product container or label at hand. Use personal protective equipment as required. Remove contaminated clothing and wash it before reuse. Wash skin surfaces thoroughly after contact.

Inhalation : Get medical attention immediately. Move affected person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin contact : Wash with plenty of soap and water. Remove contaminated clothing and wash it before reuse.

Eye contact : Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do.

Ingestion : Ingestion may cause gastrointestinal irritation and diarrhea. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Inhalation : respiratory tract irritation,coughing

Skin contact : Not expected under normal use.

Eye contact : irritation,redness

Ingestion : Not expected under normal use.

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

Section 4. First aid measures

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Use personal protective equipment as required.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed.

Hazardous thermal decomposition products : In a fire, hazardous decomposition products may be produced. carbon oxides (CO, CO_2) nitrogen oxides halogenated compounds carbonyl halides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment (see Section 8). Keep unnecessary personnel away. Avoid breathing vapor or mist. Provide adequate ventilation.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". Evacuate area.

Environmental precautions : Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Do not allow any potentially contaminated water, including rain water, runoff from fire fighting or spills, to enter any waterway, sewer or drain.

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 6. Accidental release measures

Large spill : Stop leak if without risk. Move containers from spill area. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Avoid breathing gas. Do not ingest. Contains gas under pressure. Do not puncture or incinerate container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Storage temperature : Store between the following temperatures: 5 to 35°C (41 to 95°F).

Shelf life : 3 years

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
trans-dichloroethylene	**ACGIH TLV (United States, 1/2024)** **[1,2-Dichloroethylene]** TWA 8 hours: 200 ppm. TWA 8 hours: 793 mg/m³.
Carbon dioxide, gas	**ACGIH TLV (United States, 1/2024)** TWA 8 hours: 5000 ppm. TWA 8 hours: 9000 mg/m³. STEL 15 minutes: 30000 ppm. STEL 15 minutes: 54000 mg/m³. **NIOSH REL (United States, 10/2020)** TWA 10 hours: 5000 ppm. TWA 10 hours: 9000 mg/m³. STEL 15 minutes: 30000 ppm. STEL 15 minutes: 54000 mg/m³. **OSHA PEL (United States, 5/2018)** TWA 8 hours: 5000 ppm. TWA 8 hours: 9000 mg/m³.
Stoddard solvent	**ACGIH TLV (United States, 1/2024)** TWA 8 hours: 100 ppm. TWA 8 hours: 525 mg/m³. **NIOSH REL (United States, 10/2020)** TWA 10 hours: 350 mg/m³. CEIL 15 minutes: 1800 mg/m³.

Section 8. Exposure controls/personal protection

	OSHA PEL (United States, 5/2018) TWA 8 hours: 500 ppm. TWA 8 hours: 2900 mg/m³.

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Keep equipment clean.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.

Other skin protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : A respirator is not needed under normal and intended conditions of product use. Use appropriate respiratory protection if there is a risk of exceeding any exposure limits.

Thermal hazards : Not expected under normal use. Not relevant/applicable due to nature of the product.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Aerosol.]

Color : Clear. Colorless.

Odor : Characteristic.

Odor threshold : Not available.

pH : Not applicable.

Melting point : <20°C (<68°F)

Boiling point : 47°C (116.6°F)

Flash point : Open cup: Not applicable.

Evaporation rate : Not available.

Section 9. Physical and chemical properties

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Lower: 9.7%
Upper: 12.8%

Vapor pressure : Not available.

Vapor density : Not available.

Density : 1.24 g/cm³ [25°C (77°F)]

Solubility :

Media	Result
water	Not soluble

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

VOC content

Product : 10.14 lbs/gal

Product less water and exempt : 10.14 lbs/gal

Aerosol product

Type of aerosol : Spray

Heat of combustion : 0.5143 kJ/g

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific measures identified.

Incompatible materials : Strong oxidizing materials. strong acids. strong alkalis

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity : Harmful if inhaled.

Acute toxicity estimates

Route	ATE value
Oral	188964.47 mg/kg
Inhalation (vapors)	12.37 mg/l

Numerical measures of toxicity

Product/ingredient name	Result	
trans-dichloroethylene	Rat - Oral - LD50	1235 mg/kg
	Rabbit - Dermal - LD50	>5 g/kg Skin After systemic exposure - Dermatitis, irritative Gross Metabolite Changes - Weight loss or decreased weight gain
	Rat - Inhalation - LC50 Gas.	24100 ppm [4 hours] Behavioral - Somnolence (general depressed activity) Lung, Thorax, or Respiration - Respiratory depression

Irritation/Corrosion : Based on available data, the classification criteria are not met.

Product/ingredient name	Result	
trans-dichloroethylene	Rabbit - Eyes - Moderate irritant	Amount/concentration applied: 10 mg
	Rabbit - Skin - Moderate irritant	Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
Stoddard solvent	Human - Eyes - Mild irritant	Amount/concentration applied: 100 ppm
	Rabbit - Eyes - Moderate irritant	Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

Respiratory or skin sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Reproductive toxicity : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) : Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.

Product/ingredient name	Result
Stoddard solvent	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), lungs) - Category 1

Aspiration hazard : Based on available data, the classification criteria are not met.

Section 11. Toxicological information

Name	Result
Stoddard solvent	ASPIRATION HAZARD - Category 1

Other information : None identified.

Information on the likely routes of exposure

Inhalation : Harmful if inhaled.

Skin contact : No known significant effects or critical hazards.

Eye contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

May cause damage to organs through prolonged or repeated exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : respiratory tract irritation,coughing

Skin contact : Not expected under normal use.

Eye contact : irritation,redness

Ingestion : Not expected under normal use.

Section 12. Ecological information

This material is harmful to aquatic life with long lasting effects.

Toxicity

Product/ingredient name	Result	
trans-dichloroethylene	Acute - LC50 - Fresh water US EPA	220 mg/l [48 hours] Daphnia - Water flea - *Daphnia magna*

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Stoddard solvent	-	-	Readily

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
trans-dichloroethylene	2.09	-	Low
Carbon dioxide, gas	0.83	-	Low
Stoddard solvent	3.16 to 7.06	-	High

Mobility in soil

Soil/Water partition coefficient : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Empty containers or liners may retain some product residues. Empty containers retain product residue and can be hazardous. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
1,2-Dichloroethylene	156-60-5	Listed	U079

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	UN1950	UN1950	UN1950
UN proper shipping name	Aerosols	AEROSOLS	Aerosols, non-flammable
Transport hazard class(es)	2.2 	2.2 	2.2 
Packing group	-	-	-
Environmental hazards	Yes.	No.	No.

Additional information

DOT Classification : This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.
Reportable quantity Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
Limited quantity Yes.
Packaging instruction Exceptions: 306. Non-bulk: None. Bulk: None.
Quantity limitation Passenger aircraft/rail: 75 kg. Cargo aircraft: 150 kg.

IMDG : **Emergency schedules** F-D, S-U
Special provisions 63, 190, 277, 327, 344, 381, 959

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.
Quantity limitation Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y203.
Special provisions A98, A145, A167, A802

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 14. Transport information

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

U.S. Federal regulations

TSCA 12(b) - Chemical export notification

Name	One time notification		Annual notification		
	4	5	5(f)	6	7
trans-1,2-Dichloroethylene	Listed	Not listed	Not listed	Not listed	Not listed

Clean Water Act (CWA) 311

None of the components are listed.

Clean Water Act (CWA) 307

Ingredient name	CAS number
trans-dichloroethylene	156-60-5

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

None of the components are listed.

SARA 302/304

None of the components are listed.

SARA 311/312

Classification : See GHS Classification in section 2 for hazard class information

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.

State regulations

Massachusetts : The following components are listed: DICHLOROETHYLENE-TRANS; CARBON DIOXIDE; STODDARD SOLVENT

New York : The following components are listed: Ethene, trans-1,2-dichloro-

New Jersey : The following components are listed: CARBON DIOXIDE; STODDARD SOLVENT

Pennsylvania : The following components are listed: ETHENE, 1,2-DICHLORO-, (E)-; CARBON DIOXIDE; STODDARD SOLVENT

California

California Prop. 65

This product does not contain any Proposition 65 chemicals.

SCAQMD Rule 1144

This product has not been tested for VOC content by the ASTM E-1868-10 (2021) method and is not approved for sale or distribution in the SCAQM District of California if the product is used as a metal forming, metal removal, metal treating, metal protection fluid

International regulations

Montreal Protocol

Not listed.

Section 15. Regulatory information

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

United States : All components are active or exempted.

Canada : At least one component is not listed in DSL but all such components are listed in NDSL.

Section 16. Other information

Date of issue/Date of revision : 5/26/2026

Version : 3

Prepared by : Quaker Houghton Product Stewardship

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations
VOC = Volatile Organic Compound

References : **Safety data sheets of raw materials, global regulatory body information, scientific literature, and testing data .**

Indicates information that has changed from previously issued version.

Notice to reader

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