

Safety Data Sheet
TRANSENE
COMPANY, INC.

SECTION 1 - PRODUCT & COMPANY INFORMATION

Product Name: CERTIFIED AIR MARINE & AUTO MIL-R-81294D TY. I/II; CL.2A Product Code: CCP-C282-SDS

Trade Name: C.A.M.A. USE: PAINT REMOVER ALSO FOR PTI-C282

Manufacturer: Transene Company, Inc.

Address: Danvers Industrial Park

10 Electronics Avenue Danvers, MA

01923

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www.transene.com

Emergency No. 1-900-424-9300

CHEMTREC

Notice for Dichloromethane (Methylene Chloride):

Restrictions on Use (United States): This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal. If you are NOT a professional you should NOT use this product.

SECTION 2 - HAZARDS IDENTIFICATION

HMIS:310X

GHS Ratings:

Flammable liquid	4	Flash point $\geq 60^{\circ}\text{C}$ (140°F) and $\leq 93^{\circ}\text{C}$ (200°F)
Oral Toxicity	4	Oral >300 and ≤ 2000 mg/kg
Dermal Toxicity	4	Dermal >1000 and ≤ 2000 mg/kg
Inhalation Toxicity	4	Gases >2500 and ≤ 20000 ppm, Vapors >10 and ≤ 20 mg/l, Dusts&mists >1 and ≤ 5 mg/l
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Serious eye damage/irritation	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity ≥ 3 , Iritis > 1.5
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer
Carcinogen	1A	Known Human Carcinogen Based on human evidence
Organ toxin repeated exposure	1	Significant toxicity in humans- Reliable, good quality human case studies or epidemiological studies Presumed significant toxicity in humans- Animal studies with significant and/or severe toxic effects relevant to humans at generally low exposure (guidanc

GHS Hazards

H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

GHS Precautions

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
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/protective clothing/eye protection/face protection
P285	In case of inadequate ventilation wear respiratory protection
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P370+P380+P375	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion
P402+P404	Store in a dry place. Store in a closed container
P403+P235	Store in a well ventilated place. Keep cool

Signal Word: **Danger**



SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Trade secrets, proprietary, non-hazardous, and unlisted ingredients are not hazardous to humans, the environment, and are not regulated materials.

Chemical Name	CAS number	Weight Concentration %
HYDROXYPROPYL METHYLCELLULOSE	9004-65-3	< 1%
NORFOX	143-18-0	1-2%
SODIUM CHLORIDE	7647-18-5	< 1%
WATER	7732-18-5	1-2%
DICHLOROMETHANE	75-09-2	75-80%
WAX	8002-74-2	1-2%
TOLUENE	108-88-3	< 1%
METHANOL	67-56-1	10-14%
AMMONIA	7664-41-7	1-2%

2-(2-BUTOXYETHOXY) ETHANOL	112-34-5	1-2%
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(1) NON-HAZARDOUS MATERIAL

SECTION 4 - FIRST AID MEASURES

INHALATION: If breathing problems occur during use, **LEAVE AREA IMMEDIATELY** and get fresh air. If breathing problems remain, **SEEK IMMEDIATE MEDICAL ATTENTION.**

EYE CONTACT: Flush eyes with large amounts of clean water for at least 20 minutes. Seek immediate medical attention.

SKIN CONTACT: Wash affected area thoroughly with soap and water. Get medical attention if irritation develops or persists. Remove contaminated clothing and launder before re-use.

INGESTION: Do not induce vomiting. Get immediate medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: 84 C (183 F)

LEL: N/A

UEL: N/A

All flashpoints: TCC LEL AND UEL expressed as percent (%)

EXTINGUISHING MEDIA: Alcohol foam, carbon dioxide (CO₂), dry chemical, water spray/water fog extinguishing systems

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors can travel to a source of ignition and flash back. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flashpoint. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.** Empty drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner, or properly disposed of.

SPECIAL FIREFIGHTING PROCEDURES: Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7 - HANDLING & STORAGE

HANDLING: Wear all appropriate Personal Protective Equipment (PPE). Wear appropriate respiratory protection and ensure adequate ventilation at all times as vapors can accumulate over time in enclosed spaces and poorly ventilated areas. Use product in a way that minimizes splashes and/or creation of dust. Wash with soap and water thoroughly after each use.

STORAGE: Keep away from heat, sparks and flame. Keep container closed when not in use. Store in a cool dry area at a temperature between 50 and 95 degrees F. Do not store outside in direct sunlight.

SECTION 8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
HYDROXYPROPYL METHYLCELLULOSE 9004-65-3	Not Established	Not Established	DOW IHG 10 mg/m ³
NORFOX 143-18-0	No TLV established	No PEL established	Not Established
SODIUM CHLORIDE 7647-18-5	Not Established	Not Established	Not Established
WATER 7732-18-5	No TLV established	No PEL established	Not Established
DICHLOROMETHANE 75-09-2	25 ppm TWA skin 125 ppm STEL skin 12.5 ppm Action Level skin	50 ppm TWA BEI	Not Established
WAX 8002-74-2	Not Established	2 mg/m ³ TWA (fume)	NIOSH: 2 mg/m ³ TWA (fume)
TOLUENE 108-88-3	200 ppm TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 375 mg/m ³ TWA 150 ppm STEL; 560 mg/m ³ STEL
METHANOL 67-56-1	200 ppm TWA; 260 mg/m ³ TWA	250 ppm STEL 200 ppm TWA	NIOSH: 200 ppm TWA; 260 mg/m ³ TWA 250 ppm STEL; 325 mg/m ³ STEL
AMMONIA 7664-41-7	50 ppm TWA; 35 mg/m ³ TWA	35 ppm STEL 25 ppm TWA	NIOSH: 25 ppm TWA; 18 mg/m ³ TWA 35 ppm STEL; 27 mg/m ³ STEL
2-(2-BUTOXYETHOXY) ETHANOL 112-34-5	TWA 20ppm TWA 50ppm 240mg/m ³	Not Established	Not Established

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels . Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

VENTILATION & RESPIRATORY PROTECTION: Always follow all local, state, and federal laws and regulations regarding the use of respirators. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Wear a MSHA/NIOSH approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

ADMINISTRATIVE CONTROLS: All individual company safety policies should be reviewed to determine

compliance with applicable Federal, State and local safety regulations. If a company determines that threshold limit values and air quality contaminant level have not been exceeded, then that company should set it's own policies regarding the use of respirators and other Personal Protective Equipment. SKIN PROTECTION: Where contact is likely, wear chemical resistant gloves, such as neoprene or solvent resistant nitrile. To prevent repeated or prolonged skin contact, wear impervious clothing such as a chemical suit, rubber boots, and/or chemical safety goggles plus a face shield if such should be necessary. If the equipment to be worn is not available or the type of equipment for a specific job is not known, consult a reputable safety equipment supply company. Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT: Where splashing is possible, full chemically resistant protective clothing (e.g. acid suit) and boots are required.

HYGIENIC PRACTICES: Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid prolonged or repeated contact with skin. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

This product exhibits the following properties under normal conditions:

<p style="text-align: center;">Appearance Pigmented liquid</p> <p>Vapor Pressure: N/A</p> <p>Vapor Density: N/A</p> <p>Density: 1.19</p> <p>Freezing point: N/A</p> <p>Boiling Range: N/A</p> <p>Evaporation rate: N/A</p> <p>Explosive Limits: N/A</p> <p>Autoignition temperature: N/A</p> <p>VOC(g/l) Less H2O and Exempt Compounds 0.00</p> <p>Specific Gravity 1.19</p> <p>Weight/Gallon 0.00</p>	<p style="text-align: center;">Odor Solvent like</p> <p>Odor threshold: N/A</p> <p>pH: N/A</p> <p>Melting point: N/A</p> <p>Solubility: N/A</p> <p>Flash point: 183F</p> <p>Physical State Liquid</p> <p>Partition coefficient (n- octanol/water): N/A</p> <p>Decomposition temperature: N/A</p> <p>VOC(lbs/gal) Less H2O and Exempt Compounds 0.00</p> <p>% VOC (C.A.R.B) 0.00</p>
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SECTION 10 - REACTIVITY & STABILITY

STABILITY:

STABLE

INCOMPATIBILITY (Materials to avoid): strong acids and bases, oxidizers, and selected amines.

CONDITIONS TO AVOID: Avoid all possible sources of ignition.

No Data

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide (CO) and carbon dioxide (CO2).

Other unknown hazardous products are possible.

No Data

Hazardous polymerization will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Mixture Toxicity

Component Toxicity

143-18-0	NORFOX Oral LD50: 5 g/kg (Rat:) Dermal LD50: 2 g/kg (Rat:)
7732-18-5	WATER Oral LD50: 90 mL/kg (Rat:)
75-09-2	DICHLOROMETHANE Oral LD50: 2,000 mg/kg (Rat:)
8002-74-2	WAX Oral LD50: 3,750 mg/kg (Rat:) Dermal LD50: 3,600 mg/kg (Rabbit:)
108-88-3	TOLUENE Oral LD50: 636 mg/kg (Rat)
7664-41-7	AMMONIA Oral LD50: 350 mg/kg (Rat) Inhalation LC50: 2,000 ppm (Rat)
112-34-5	2-(2-BUTOXYETHOXY) ETHANOL Oral LD50: 3,384 mg/kg (Rat) Dermal LD50: 2,700 mg/kg (Rabbit)

INHALATION: Headaches, dizziness, nausea, decreased blood pressure, change in heart rate, and cyanosis may result from overexposure to vapor. **Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.**

INGESTION: This material may be harmful or fatal if swallowed.

SKIN CONTACT: May cause sensitization or allergic reaction.

EYE CONTACT: Direct contact with liquid, exposure to vapors or mist may cause stinging, tearing, redness, swelling and eye damage.

Routes of Entry:

Inhalation Skin Contact Eye Contact Ingestion

Exposure to this material may affect the following organs:

Eyes Kidneys Liver Central Nervous System Skin Cardiovascular System GI
Tract Respiratory System

Effects of Overexposure

CARCINOGENICITY:

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
75-09-2	DICHLOROMETHANE	0.000%	DICHLOROMETHANE: NTP: Anticipated carcinogen IARC: Possible human carcinogen; 2B OSHA: Potential cancer hazard

ACUTE TOXICITY:

INHALATION: **Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.**

CONDITIONS AGGRAVATED: Unknown.

CHRONIC EFFECTS: **Reports have associated repeated and prolonged occupational exposure**

to solvents with permanent brain and nervous system damage.

SECTION 12 - ECOLOGICAL INFORMATION

No information available.

Component Ecotoxicity

DICHLOROMETHANE	96 Hr LC50 Lepomis macrochirus: 193 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 193 mg/L [flow-through] 48 Hr EC50 water flea: 140 mg/L [Static] 96 Hr EC50 Selenastrum capricornutum: >660 mg/L
TOLUENE	96 Hr LC50 Pimephales promelas: 25 mg/L [flow-through] (1 day old); 96 Hr LC50 Oncorhynchus mykiss: 24.0 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 24.0 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 13 mg/L [static] 48 Hr EC50 water flea: 11.3 mg/L; 48 Hr EC50 water flea: 310 mg/L; 48 Hr EC50 Daphnia magna: 11.3 mg/L 96 Hr EC50 Selenastrum capricornutum: >433 mg/L
METHANOL	96 Hr LC50 Pimephales promelas: 28100 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 13200 mg/L
AMMONIA	96 Hr LC50 Cyprinus carpio: 1.1 mg/L; 96 Hr LC50 Lepomis macrochirus: 0.26-4.6 mg/L; 96 Hr LC50 Pimephales promelas: 0.73-2.35 mg/L; 96 Hr LC50 Poecilia reticulata: >1.5 mg/L 48 Hr EC50 Daphnia magna: 25.4 mg/L
2-(2-BUTOXYETHOXY) ETHANOL	96 Hr LC50 Lepomis macrochirus: 1300 mg/L [static] 24 Hr EC50 water flea: 2850 mg/L; 48 Hr EC50 Daphnia magna: >100 mg/L 96 Hr EC50 Scenedesmus subspicatus: >100 mg/L

SECTION 13 - DISPOSAL CONSIDERATIONS

It is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition. Maximize material recovery for reuse or recycling.

It is the responsibility of the user to determine if the material is a RCRA "hazardous waste" at the time of disposal. Transportation, treatment, storage, and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271) . State and/or local regulations may be more restrictive. Contact your regional US EPA office for guidance concerning case specific disposal issues.

Non-usable product is regulated by US EPA as hazardous material under the following codes:

SECTION 14 - TRANSPORTATION / SHIPPING INFORMATION

Hazardous Material! Ship according to all applicable local, state, and federal regulations regarding labeling and packaging requirements.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
D.O.T.	PAINT RELATED MATERIAL	UN 3066	III	8
IATA	PAINT RELATED MATERIAL	UN 3066	III	8
IMO	PAINT RELATED MATERIAL	UN 3066	III	8

SECTION 15 - REGULATORY INFORMATION

Additional regulatory listings, where applicable.

DICHLOROMETHANE (Methylene Chloride):

Restrictions on Use (United States): This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

If you are NOT a professional you should NOT use this product .

SEE: WWW.EPA.GOV/ASSESSING-AND-MANAGING-CHEMICALS-UNDER-TSCA/FINAL-RISK-EVALUATION-M

The following chemicals are listed under California Proposition 65:

No Data

The following chemicals appear on the New Jersey Right-To-Know Chemicals list:

No Data

The following chemicals appear on the Pennsylvania Right-To-Know list:

No Data

SARA HAZARD CATEGORY: The product has been reviewed according to the EPA 'Hazard Categories' promulgated under sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

67-56-1 METHANOL Fire Hazard, Acute Health Hazard

TOXIC SUBSTANCES CONTROL ACT: TSCA 2018 RESET COMPLIANT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No Data

Country

Regulation

All Components Listed



EU Risk Phrases

Safety Phrase

All ingredients are TSCA 2018 Reset Compliant. The chemical substances listed below are not on the TSCA Section 8 Inventory:

No Data

SARA Section 313: The product contains the following substances subject to the reporting requirements of section 313 and Title II of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

7664-41-7 AMMONIA 0.00%

SECTION 16 - OTHER INFORMATION

The information in this document is believed to be correct as of the date printed.

NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT OF THE HAZARDS

RELATED TO ITS USE.

This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assumes the risk of his use thereof.

Hazardous Material Information System (HMIS)

HEALTH		3	HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH
FLAMMABILITY		1	
PHYSICAL HAZARD		0	
PERSONAL PROTECTION		X	

National Fire Protection Association (NFPA)

