



SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER

Product Name : Acetoxy dispersion
Product Code : MD-564, MD-564-1, MD-564-GAL
Intended Use(s) : To provide a matte finish to silicone products

CONTACT INFORMATION FOR SUPPLIER OF SAFETY DATA SHEET

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EMERGENCY TELEPHONE NUMBERS

Factor II, Incorporated 928 368 7502

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Classification

Hazard class : Flammable liquid, Category 2
Skin irritation, Category 2 Eye
irritation, Category 2A
Reproductive toxicity, Category 2
STOT-single exposure, Category 3
Aspiration hazard, Category 1 Acute
aquatic toxicity, Category 1

Hazard Pictogram(s) :



Signal word :

Hazard statement(s) :

Danger
H225 Highly flammable liquid and vapor
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H361 Suspected of damaging fertility or the unborn child
H371 May cause damage to organs (vasculature)
H400 Very toxic to aquatic life



Precautionary statement(s) : 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 flame/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
- P260 Do not breathe dust/fumes/gas/mist/vapor/spray
- P264 Wash skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P273 Avoid release to the environment
- P281 Use personal protective equipment as required

Response

- P301 + P310 + P331 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. DO NOT induce vomiting.
- P303 + P361 + P364 + P353 + P314 IF ON SKIN (or hair): Immediately remove all contaminated clothing and wash before reuse. Rinse skin with water/shower. Seek medical attention if you feel unwell.
- P304 + P340 + P314 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if you feel unwell.
- P305 + P351 + P338 + P314 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if you feel unwell.

Storage

- P403 + P405 + P233 + P235 Store locked up in a well-ventilated place. Keep container cool and tightly closed.

Disposal

- P501 Dispose of contents/container to an approved waste disposal plant.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Concentration
Cyclohexane	110-82-7	<95% by weight
Silicone dioxide amorphous	112945-52-5	>2% by weight
Proprietary ingredient		>2% by weight

The specific chemical identities have been withheld as a trade secret.



SECTION 4: FIRST-AID MEASURES

In the case of accident or if you feel unwell, see medical attention immediately. When symptoms persist, or in all cases of doubt, seek medical attention.

First-aid instructions by relevant routes of exposure include:

- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if symptoms persist or after a significant exposure.
- Skin contact** : Immediately wash thoroughly with soap and water while removing contaminated clothing and shoes. Seek medical attention. Wash clothing and thoroughly clean shoes before reuse.
- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes. If worn and easy to do, remove contact lenses.
- Ingestion** : Keep respiratory tract clear. DO NOT induce vomiting. Do not give anything to drink. Never give anything by mouth to an unconscious person. Seek medical attention immediately.
- Most important symptoms and effects, both acute and delayed** : Symptoms of poisoning may appear several hours later. Do not leave victim unattended.
- First aid responders** : First aid responders should pay attention to self-protection and use the recommended personal protective equipment when the potential for exposure exists.
- Note to physician** : Treat symptomatically and supportively.

SECTION 5: FIRE-FIGHTING MEASURES

- Suitable extinguishing media** : Alcohol-resistant foam, carbon dioxide (CO2), dry chemical
- Unsuitable extinguishing media** : High volume water jet
- Specific hazards during fire** : Collect contaminated fire extinguishing water separately; do not allow run-off from firefighting to enter drains or water courses. Fire residues and contaminated water must be disposed of in accordance with local regulations. Take precautions to avoid static electricity discharge (which may cause ignition of organic vapors).
- Hazardous decomposition products** : Carbon dioxide, carbon oxides
- Specific extinguishing methods** : Use extinguishing measures that are appropriate to local



circumstances and the surrounding environment. Evacuate area and eliminate sources of ignition. Use water spray to cool unopened containers. Remove undamaged containers from fire area if safe to do so.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Firefighting equipment should be thoroughly decontaminated after use.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures : Remove all sources of ignition, ventilate the area and keep upwind. Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions : Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area by containment or oil barriers. Retain and dispose of contaminated wash water. Spills on porous surfaces can contaminate groundwater. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleanup procedures : Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mist with a water spray jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. See Sections 13 and 15 of this SDS for information regarding certain local or national requirements.

SECTION 7: HANDLING AND STORAGE

Technical measures : Ensure all equipment is electrically grounded before beginning transfer operations. This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge before beginning transfer operations. Restrict flow velocity in order to reduce the accumulation of static electricity.

Local/total ventilation : Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation.



Precautions for safe handling : Do not get on skin or clothing. Do not breathe vapors or spray mist. Do not swallow. Do not get in eyes. Handle in accordance with good industrial hygiene and safety practice. Non-sparking tools should be used. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Keep container tightly closed. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep away from food, drink and animal feeding stuffs. Keep container tightly closed and in a cool, well-ventilated place away from heat, sparks and flame. For safety reasons in case of fire, cans should be stored separately in closed containments. Store in accordance with the particular national regulations. Protect containers from physical damage.

Materials to avoid : May react with oxygen and strong oxidizing agents such as chlorates, nitrates, peroxides, etc.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA HAZARDOUS COMPONENTS					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Component Name, CAS Number		ppm	mg/m ³	ppm	mg/m ³
Cyclohexane, 110-82-7	TWA	300	1050	100	
	STEL				

Engineering Controls : Minimize workplace exposure concentrations. Use only in an area equipped with explosion proof exhaust ventilation. Use with local exhaust ventilation.

Personal Protective Equipment

Pictograms :



Respiratory : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other



circumstance where air purifying respirators may not provide adequate protection.

- Eye/Face** : Use safety goggles as a minimum when working with chemicals.
- Hands** : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. For special applications, clarify the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands thoroughly before breaks and at the end of workday.
- Skin/Body** : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: flame retardant antistatic protective clothing. Avoid skin contact by using protective clothing (gloves, aprons, boots, etc.).
- Hygiene measures** : Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Clear liquid
- Upper/lower flammability or explosive limits** : Undetermined
- Odor** : Ether-like
- Vapor pressure** : 77mm Hg at 20°C
- Odor threshold** : No data available
- Vapor density (air = 1.0)** : 2.9
- pH** : Not applicable
- Relative density** : Undetermined
- Melting point/freezing point** : 44°F (7°C) / Undetermined
- Solubility(ies)** : Very slight in water
- Initial boiling point and boiling range** : 177°F (81°C)
- Flash point** : 1°F (-18°C) (closed cup)
- Evaporation rate** : No data available
- Flammability (solid, gas)** : No data available
- Partition coefficient n-octanol/water** : No data available
- Auto-ignition temperature** : 500°F (260°C)
- Decomposition temperature** : No data available
- Viscosity** : No data available



SECTION 10: STABILITY AND REACTIVITY

- Reactivity** : Non-reactive
- Chemical stability** : Stable
- Conditions to avoid** : Heat, sparks and flames
- Incompatible materials** : May react with oxygen and strong oxidizing agents such as chlorates, nitrates, peroxides, etc.
- Other** : Hazardous polymerization will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE - Inhalation, skin contact, ingestion, eye contact

ACUTE TOXICITY - Not classified based on available information

Ingredients

Cyclohexane

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 32,880 mg/m3
Exposure time: 4 h Test
atmosphere: vapor
Method: OECD Test Guideline 403

Acute dermal toxicity : May cause skin irritation in susceptible persons

SKIN CORROSION/IRRITATION – May cause skin irritation in susceptible persons

SERIOUS EYE DAMAGE/EYE IRRITATION – No adverse effects expected. Vapors may cause eye irritation.

RESPIRATORY AND SKIN SENSITIZATION – Did not cause sensitization on laboratory animals. Vapors may cause respiratory system irritation.

GERM CELL MUTAGENICITY – Animal testing did not show any mutagenic effects

CARCINOGENICITY - Not classified based on available information

IARC : No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA : No ingredient of this product present at levels greater than or equal to



0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

REPRODUCTIVE TOXICITY - No evidence of adverse effects on sexual function and fertility, based on animal experiments.

STOT-SINGLE EXPOSURE – No adverse effects expected

STOT-REPEATED EXPOSURE – Not classified based on available information

REPEATED DOSE TOXICITY – Not classified based on available information

ASPIRATION TOXICITY – May be fatal if swallowed and enters airways.

FURTHER INFORMATION

Ingredients

Cyclohexane

Remarks : Symptoms of overexposure may include headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TVL value may cause narcotic effects. Solvents may degrease the skin.

SECTION 12: ECOLOGICAL INFORMATION

Cyclohexane

Toxicity to fish

LC50 : Pimephales promelas (fathead minnow) 4.53 mg/l
Exposure time : 96 h
Method : OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

EC50 : Daphnia magna (water flea) 0.9 mg/l
Exposure time : 48 h
Method : OECD Test Guideline 202

Toxicity to algae

EbC50 : Selenastrum capricornutum (algae) 3.4 mg/l
Exposure time : 72 h
NOEC : 0.925 mg/l
Exposure time : 72 h
Species : Pseudokirchneriella subcapitata (green algae)
Method : OECD Test Guideline 201

PERSISTENCE AND DEGRADABILITY

Ingredients Cyclohexane

Biodegradability



Result : Expected to be readily biodegradable
Biodegradation : 77%
Exposure time : 28 d
Method : OECD Test Guideline 301F

BIOACCUMULATIVE POTENTIAL – This material is not expected to bioaccumulate

Bioconcentration factor : 33 - 275
(BCF)

MOBILITY IN SOIL - No data available

OTHER ADVERSE EFFECTS – The product components are 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.

SECTION 13: DISPOSAL CONSIDERATIONS

Product : This product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.

Resource Conservation : When a decision is made to discard this material as supplied, And Recovery Act (RCRA) it is classified as a RCRA hazardous waste.

Waste Code : U056

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product. Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: TRANSPORT INFORMATION

US DOT

Proper shipping name : Cyclohexane
UN number : UN1145
Hazard class(es) : 3
Packing group : II
Labels : Flammable liquids
ERG Code : 128

IATA and ICAO

Proper shipping name : Cyclohexane
UN number : UN1145
Hazard class(es) : 3
Packing group : II
Labels : Flammable liquids
Packing instructions : Passenger / Cargo aircraft – 353



SECTION 15: REGULATORY INFORMATION

EPCRA - EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW

CERCLA Reportable Quantity

Ingredients	CAS Number	Component RQ (lbs)
Cyclohexane	110-82-7	5,000

SARA 311/312 Hazards : Fire hazard
Acute health hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:
Cyclohexane 110-82-7 95%

US STATE REGULATIONS

Massachusetts Right To Know

Cyclohexane 110-82-7 95%

New Jersey Right To Know

Cyclohexane 110-82-7 95%

Pennsylvania Right To Know

Cyclohexane 110-82-7 95%

Rhode Island Right To Know

Cyclohexane 110-82-7 95%

California Prop 65 This product contains no chemical(s) known in the State of California to cause birth defects or other reproductive harm.

The ingredients of this product are reported in the following inventories:

The ingredients of this product are reported in the following inventories:

- NZIoC All ingredients listed or exempt
- REACH All ingredients (pre-) registered or exempt
- TSCA All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances
- AICS All ingredients listed or exempt
- IECSC All ingredients listed or exempt
- ENCS/ISHL All components are listed on ENCS/ISHL or exempted from inventory listing
- KECI All ingredients listed, exempt or notified

- PICCS All ingredients listed or exempt

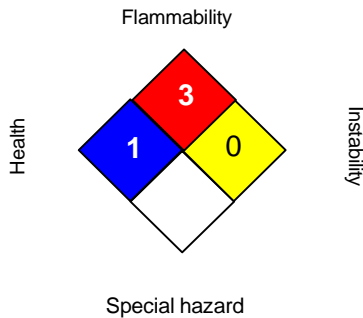


DSL All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL)

Inventories: AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16: OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic

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