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1 Identification

· Product identifier

- · Trade name: Extreme Crane Lube Aerosol
- · Application of the substance / the mixture Corrosion inhibitors
- $\cdot$  Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Cortec Corporation 4119 White Bear Parkway St. Paul, MN 55110 USA Phone (651) 429-1100 Fax (651) 429-1122

- · Information department: compliance@cortecvci.com
- · Emergency telephone number:

Spill, Leak, Fire, Exposure, or Accident

24 hour CHEMTREC contact: USA and Canada 1-800-424-9300

International +1-703-527-3887 (collect calls accepted)

### 2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS04 Gas cylinder

Press. Gas H280 Contains gas under pressure; may explode if heated.



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
- $\cdot \textbf{GHS label elements} \ \text{The product is classified and labeled according to the Globally Harmonized System (GHS)}.$

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Trade name: Extreme Crane Lube Aerosol

(Contd. of page 1)

#### · Hazard pictograms









GHS04

GHS07

· Signal word Danger

### · Hazard-determining components of labeling:

n-hexane

Sulfurized Diisobutylene

#### · Hazard statements

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

#### · Precautionary statements

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.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area. P271

Contaminated work clothing must not be allowed out of the workplace. P272

Wear protective gloves/protective clothing/eye protection/face protection. P280

P301+P310 If swallowed: Immediately call a poison center/doctor.

P321 Specific treatment (see first aid statements on this label).

P331 Do NOT induce vomiting.

P302+P352 If on skin: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a poison center/doctor if you feel unwell.

Get medical advice/attention if you feel unwell. P314

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse. P363

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

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Trade name: Extreme Crane Lube Aerosol

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\*

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:				
110-54-3	n-hexane	50-100%		
74-98-6	propane liquefied	2.5-10%		
75-28-5	2-methylpropane	2.5-10%		
68515-88-8	Sulfurized Diisobutylene	≥0.1-<1%		

#### · Additional information

In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR 1910.1200), the specific chemical identity and/or exact percentage composition has been withheld as a trade secret. For the wording of the listed hazard phrases refer to section 16.

\*

### 4 First-aid measures

- · Description of first aid measures
- General information Immediately remove any clothing soiled by the product.
- · After inhalation

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably on side position for transportation.

· After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing

DO NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. If affected person is fully conscious, give one glass of water to drink. Never give anything by mouth to an unconscious person. Get immediate medical attention.

- · Information for doctor Show this safety data sheet to the doctor in attendance.
- · Most important symptoms and effects, both acute and delayed

The symptoms and effects are as expected from the hazards shown in section 2. No specific product related symptoms are known.

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **5** Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

· Advice for firefighters Self-contained breathing apparatus

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· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

(Contd. of page 3)

#### **6 Accidental release measures**

· Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.





Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

- · Handling
- · Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about protection against explosions and fires:



Keep ignition sources away - Do not smoke.

Protect from heat.

Keep respiratory protective device available.

Provide adequate precautions, such as electrical grounding and bonding.

- · Conditions for safe storage, including any incompatibilities
- ·Storage
- · Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurized containers.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

- · Further information about storage conditions: None.
- · Storage class 2 B
- $\cdot$  Specific end use(s) No further relevant information available.

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Trade name: Extreme Crane Lube Aerosol

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### 8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits

Atun	At this time, the remaining constituent has no known exposure mints.					
110-54-3 n-hexane (50-100%)						
PEL Long-term value: 1800 mg/m³, 500 ppm						
REL Long-term value: 180 mg/m³, 50 ppm						
TLV Long-term value: 176 mg/m³, 50 ppm Skin; BEI						
74-98	74-98-6 propane liquefied (2.5-10%)					
PEL Long-term value: 1800 mg/m³, 1000 ppm						
REL Long-term value: 1800 mg/m³, 1000 ppm						
TLV	TLV refer to Appendix F inTLVs&BEIs book; D, EX					
75-28-5 2-methylpropane (2.5-10%)						
TLV	Short-term value: 2370 mg/m³, 1000 ppm (EX)					
· Ingre	· Ingredients with biological limit values:					
110-54-3 n-hexane (50-100%)						
BEI	BEI 0.4 mg/L					
	Medium: urine					
	Time: end of shift at end of workweek					
	Parameter: 2.5-Hexanedione without hydrolysis					

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls Use local exhaust ventilation to control airborne concentrations below exposure limits.
- · Personal protective equipment
- · General protective and hygienic measures

Wash hands before breaks and at the end of work.

Store protective clothing separately.

 $\cdot \ Breathing \ equipment:$ 



Use suitable respiratory protective device in case of insufficient ventilation.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). To determine the appropriate type of respiratory protection that should be used, a hazard assessment should be performed prior to using the product. Environmental conditions such as ventilation and other contaminants may affect the type of respiratory protection that is chosen.

#### · Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Protective Gloves I.E., Nitrile, Viton, Neoprene

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· Eye protection: Tightly sealed goggles.

· **Body protection:** Protective work clothing.

(Contd. of page 5)

### 9 Physical and chemical properties

· Information	on	hasic	nhysical	and	chemical	nronerties
· mormanon	OH	Dasic	Diivsicai	anu	chemical	Droberues

· General Information

· Appearance:

Form: Aerosol
Color: Blue to Green
Odor: Characteristic
Odor threshold: Not determined.

· **pH-value:** Not determined.

· Change in condition

Melting point/Melting range: undetermined

**Boiling point/Boiling range:** Not applicable, as aerosol

• Flash point: -97 °C (-142.6 °F)

· Flammability (solid, gaseous) Not applicable.

• **Ignition temperature:** 240  $^{\circ}$ C (464  $^{\circ}$ F)

· **Decomposition temperature:** Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Not determined.

· Explosion limits:

**Lower:** 1.2 Vol % **Upper:** 10.9 Vol %

• **Vapor pressure at 20 °C (68 °F):** 8,300 hPa (6.200 mm Hg)

• **Density at 20** °C (**68** °F): 0.7 g/cm³ (5.8 lbs/gal)

Relative densityVapor densityNot determined.Not determined.

• Evaporation rate Not applicable.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

**dynamic:** Not determined. **kinematic:** Not determined.

• Other information The above data are typical values and do not constitute a specification.

\*Properties have been calculated.

### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability Stable under recommended storage conditions
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid
- Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

#### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

#### 68515-88-8 Sulfurized Diisobutylene

Oral LD50 3,641 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rabbit)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

9002-84-0 Polytetrafluoroethylene

3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### 12 Ecological information

- · Toxicity
- · Aquatic toxicity:

#### 68515-88-8 Sulfurized Diisobutylene

EC50/ 48 h 0.035 mg/l (Crustacea)

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

USA

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Trade name: Extreme Crane Lube Aerosol

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## 13 Disposal considerations

- · Waste treatment methods
- · **Recommendation** Dispose of in accordance with local, state, and federal regulations.
- · Uncleaned packagings:

· Label

· Recommendation: Disposal must be made according to official regulations.

**14 Transport information** · UN-Number · DOT, ADR, IMDG, IATA UN1950 · UN proper shipping name  $\cdot \, DOT$ Aerosols, flammable 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS  $\cdot$  ADR AEROSOLS (HEXANES), MARINE POLLUTANT · IMDG  $\cdot \, IATA$ AEROSOLS, flammable · Transport hazard class(es) · DOT 2.1 · Class · Label 2.1  $\cdot$  ADR · Class 2 5F Gases · Label 2.1  $\cdot \, IMDG$ · Class 2.1 · Label 2.1  $\cdot$  IATA · Class 2.1

2.1

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Trade name: Extreme Crane Lube Aerosol

	(Contd. of page			
Packing group DOT, ADR, IMDG, IATA	not classified as dangerous goods			
· Environmental hazards:	Product contains environmentally hazardous substances: hexane			
· Marine pollutant:	Yes (DOT) Symbol (fish and tree)			
· Special marking (ADR):	Symbol (fish and tree)			
· Special precautions for user	Warning: Gases			
· Hazard identification number (Kemler code)				
· EMS Number:	F-D,S-U			
· Stowage Code	SW1 Protected from sources of heat.			
	SW2 Clear of living quarters.			
· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre:			
	Segregation as for class 9. Stow "separated from" class 1 exce			
	for division 1.4.			
	For AEROSOLS with a capacity above 1 litre:			
	Segregation as for the appropriate subdivision of class 2.			
	For WASTE AEROSOLS:			
	Segregation as for the appropriate subdivision of class 2.			
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.			
· Transport/Additional information:				
· DOT				
· Remarks:	Special marking with the symbol (fish and tree).			
· ADR				
· Excepted quantities (EQ)	Code: E0			
	Not permitted as Excepted Quantity			
· IMDG				
· Limited quantities (LQ)	1L			
· Excepted quantities (EQ)	Code: E0			
	Not permitted as Excepted Quantity			
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALL HAZARDOUS			

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- · SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· SARA Section 313 (specific toxic chemical listings)

110-54-3 n-hexane

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

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Trade name: Extreme Crane Lube Aerosol

(Contd. of page 9) · Hazardous Air Pollutants 110-54-3 n-hexane · Proposition 65 · Prop 65 - Chemicals known to cause cancer None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for females None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for males 110-54-3 n-hexane · Chemicals known to cause developmental toxicity None of the ingredients is listed. · Cancerogenity categories · EPA (Environmental Protection Agency) 110-54-3 n-hexane II · NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. · Canadian Domestic Substances List (DSL): (Substances not listed) All ingredients are listed. · Philippines Inventory of Chemicals and Chemical Substances: (Substances not listed) All ingredients are listed. · Chinese Chemical Inventory of Existing Chemical Substances: (Substances not listed) All ingredients are listed. · Australian Inventory of Chemical Substances All ingredients are listed. · New Zealand Inventory of Chemicals: (Substances not listed) All ingredients are listed. · Existing Chemical Substances n-hexane 2-6 propane liquefied 2-3

- Sulfurized Diisobutylene 9-1785
   **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms

2-methylpropane









GHS02 GHS04 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

n-hexane

Sulfurized Diisobutylene

· Hazard statements

H222 Extremely flammable aerosol.

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#### Trade name: Extreme Crane Lube Aerosol

(Contd. of page 10)

H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

#### · Precautionary statements

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.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 If swallowed: Immediately call a poison center/doctor.

P321 Specific treatment (see first aid statements on this label).

P331 Do NOT induce vomiting.

P302+P352 If on skin: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a poison center/doctor if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Cortec Corporation does not warranty any translation of this SDS not created by Cortec Corporation.

### · Date of preparation / last revision 01/25/2021 / -

### $\cdot$ Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

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#### Trade name: Extreme Crane Lube Aerosol

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit BEI: Biological Exposure Limit

Flam. Aerosol 1: Aerosols - Category 1

Press. Gas: Gases under pressure – Compressed gas Skin Irrit. 2: Skin corrosion/irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1

\* Data compared to the previous version altered.

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