

SAFETY DATA SHEET

1. Identification

Product identifier 0165RR26

Other means of identification

Synonyms Goodrich Kit Components: 74-451-169-1, 74-451-169-2 (Contained in Goodrich Kit: 74-451-R, 74-451-R-1, and 74-451-R-2).

Recommended use Coating. Sealer.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Supplier

Company name Goodrich Corporation
UTC Aerospace Systems Sensors and Integrated Systems (Formerly De-icing and Specialty Systems)

Address 1555 Corporate Woods Parkway
Uniontown, Ohio 44685
US

E-mail Terry.Sluss@utas.utc.com

Contact name EH&S Manager

Telephone number (330)374-4011

Emergency telephone number (800)424-9300

2. Hazard(s) identification

Physical hazards Flammable liquids Category 2

Health hazards Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 1
Sensitization, respiratory Category 1
Sensitization, skin Category 1
Specific target organ toxicity, single exposure Category 3 narcotic effects
Aspiration hazard Category 1

Environmental hazards Hazardous to the aquatic environment, acute hazard Category 2
Hazardous to the aquatic environment, long-term hazard Category 2

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement

Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Wear protective gloves/eye protection/face protection. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment.

Response

In case of fire: Use appropriate media to extinguish. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. Collect spillage.

Storage

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

Contact with water liberates flammable gas.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Methyl ethyl ketone	78-93-3	40-50
Aluminium	7429-90-5	<30
Cyclohexanone	108-94-1	<15
Polyurethane polymer	Mixture	<15
Naphtha (petroleum), hydrotreated heavy	64742-48-9	<7
Solvent naphtha (petroleum), light aromatic	64742-95-6	<7
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7	<2
Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	82919-37-7	<1
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2h-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2h-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxyl]-	104810-47-1	<1
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2h-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-	104810-48-2	<1
Aromatic polycarbodiimide	Trade Secret	< 0.2

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The manufacturer has claimed one or more hazardous ingredients as trade secret under the OSHA Hazard Communication Standard. The hazards of this (these) ingredient(s) are given on this SDS.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. Call a poison center or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause allergic respiratory reaction. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Dry sand. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed such as: Carbon monoxide. Carbon dioxide. Peroxides. Aliphatic hydrocarbons. Nitrogen oxides. Titanium oxide. Titanium dioxide. Aluminum oxides.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate protective equipment and clothing during clean-up. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	<p>Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Do not get water on spilled substance or inside containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.</p> <p>Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>

Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage**Precautions for safe handling**

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with skin and clothing. Wear appropriate personal protective equipment. Wash thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Never allow product to get in contact with water during storage. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection**Occupational exposure limits****US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	PEL	5 mg/m ³	Respirable dust.
		15 mg/m ³	Total dust.
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m ³	
Methyl ethyl ketone (CAS 78-93-3)	PEL	50 ppm	
		590 mg/m ³	
Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)	PEL	200 ppm	
		400 mg/m ³	
		100 ppm	

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	1 mg/m ³	Respirable fraction.
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm	
	TWA	20 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	5 mg/m ³	Welding fume or pyrophoric powder.
		5 mg/m ³	Respirable.
		10 mg/m ³	Total
Cyclohexanone (CAS 108-94-1)	TWA	100 mg/m ³	
		25 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	885 mg/m ³	
		300 ppm	
		590 mg/m ³	
	TWA	200 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)	TWA	400 mg/m3	
		100 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexanediol, with hydrolysis	Urine	*
	8 mg/l	Cyclohexanol, with hydrolysis	Urine	*
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Cyclohexanone (CAS 108-94-1)

Skin designation applies.

US - Tennessee OELs: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear suitable protective clothing.

Respiratory protection

Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. 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.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Silvery. Thin liquid.

Physical state

Liquid.

Form

Liquid.

Color

Silver.

Odor

Ketone. Peppermint.

Odor threshold

Not available.

pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	175 - 312 °F (79.44 - 155.56 °C)
Flash point	20.0 °F (-6.7 °C) TCC
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	1.1 % v/v
Explosive limit - upper (%)	Not available.
Vapor pressure	3.95 mm Hg (Cyclohexanone) 70.6 mm Hg (MEK)
Vapor density	> 1 (Air = 1)
Relative density	1.05 - 1.09
Solubility(ies)	
Solubility (water)	Slightly soluble (68 °F (20 °C))
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
VOC (Weight %)	55 - 65

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with water. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Ammonia. Amines. Isocyanates. Caustics.
Hazardous decomposition products	Carbon monoxide. Carbon dioxide. Peroxides. Aliphatic hydrocarbons. Nitrogen oxides. Titanium oxide. Titanium dioxide. Aluminum oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May irritate throat and upper respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	Swallowing may cause gastrointestinal irritation. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause allergic respiratory reaction. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects. May cause an allergic skin reaction.

Components	Species	Test Results
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Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS 41556-26-7)

Acute

Oral

LD50	Rat	2369 - 4247 mg/kg
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Methyl ethyl ketone (CAS 78-93-3)

Acute

Dermal

LD50	Rabbit	5000 mg/kg
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Inhalation

LC50	Rat	35.3 mg/l
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Oral

LD50	Rat	3000 mg/kg
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Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)

Acute

Dermal

LD50	Rabbit	> 3160 mg/kg
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Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cyclohexanone (CAS 108-94-1)	3 Not classifiable as to carcinogenicity to humans.
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NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity MEK - Embryo/fetotoxic effects have been observed in laboratory rats exposed to over 1000 ppm MEK for most of gestation period.
Cyclohexanone - Reproductive effects have been reported in animals.

Specific target organ toxicity - single exposure May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged exposure to cyclohexanone in animals resulted in weight loss, incoordination, distended ear veins, excess salivation, narcosis, lethargy, hypothermia, lymphocytosis and slight heart, liver, and kidney damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components	Species	Test Results
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Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS 41556-26-7)

Aquatic

Fish	LC50	Bluegill (Lepomis macrochirus)	1 mg/l, 96 Hours
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Components	Species	Test Results	
Methyl ethyl ketone (CAS 78-93-3)			
Aquatic			
Crustacea	LC50	Daphnia magna	12600 mg/l, 24 Hours
Fish	LC50	Goldfish (Carassius auratus)	> 5000 mg/l, 24 Hours
Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)			
Aquatic			
<i>Acute</i>			
Fish	LC50	Pimephales promelas	8.2 mg/l, 96 hours
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)			
Aquatic			
<i>Acute</i>			
Crustacea	EL50	Daphnia	4.5 mg/l, 48 hours
Fish	LL50	Oncorhynchus mykiss	10 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Cyclohexanone (CAS 108-94-1)	0.81
Methyl ethyl ketone (CAS 78-93-3)	0.29
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2h-benzotriazol-2-yl)-5-(1,1-dimethylethyl)- 4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2h-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]- (CAS 104810-47-1)	< -1.3
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2h-benzotriazol-2-yl)-5-(1,1-dimethylethyl)- 4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- (CAS 104810-48-2)	< -1.3

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number	UN1133
UN proper shipping name	Adhesives, containing a flammable liquid
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	II
Environmental hazards	
Marine pollutant	Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Special provisions 149, B52, IB2, T4, TP1, TP8
Packaging exceptions 150
Packaging non bulk 173
Packaging bulk 242

IATA

UN number UN1133
UN proper shipping name Adhesives, containing a flammable liquid
Transport hazard class(es)
Class 3
Subsidiary risk -
Label(s) 3
Packing group II
Environmental hazards Yes
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1133
UN proper shipping name Adhesives, containing a flammable liquid
Transport hazard class(es)
Class 3
Subsidiary risk -
Label(s) 3
Packing group II
Environmental hazards
Marine pollutant Yes
EmS Not available.
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are listed on or exempt from the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Cyclohexanone (CAS 108-94-1) LISTED
Methyl ethyl ketone (CAS 78-93-3) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Aluminium	7429-90-5	<30

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Methyl ethyl ketone (CAS 78-93-3) 6714

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Methyl ethyl ketone (CAS 78-93-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Methyl ethyl ketone (CAS 78-93-3) 6714

US state regulations

US. Massachusetts RTK - Substance List

Aluminium (CAS 7429-90-5)
Cyclohexanone (CAS 108-94-1)
Methyl ethyl ketone (CAS 78-93-3)
Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)

US. New Jersey Worker and Community Right-to-Know Act

Aluminium (CAS 7429-90-5)
Methyl ethyl ketone (CAS 78-93-3)
Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Aluminium (CAS 7429-90-5)
Cyclohexanone (CAS 108-94-1)
Methyl ethyl ketone (CAS 78-93-3)
Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)

US. Rhode Island RTK

Aluminium (CAS 7429-90-5)
Cyclohexanone (CAS 108-94-1)
Methyl ethyl ketone (CAS 78-93-3)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	03-September-2015
Revision date	-
Version #	01
HMIS® ratings	Health: 1 Flammability: 3 Physical hazard: 1

NFPA ratings



Disclaimer

Goodrich Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.



SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: KE7005

Synonyms: Goodrich Kit Components: 74-451-120; 74-451-120-1; 74-451-120-2; 74-451-143; 74-451-152. Goodrich Kits: 74-451-K; 74-451-L; 74-451-O; 74-451-R-1; 74-451-R-2; 74-451-T; 74-451-AB; 74-451-AG, 74-451-AQ1, 74-451-AQ2.

Material identifier/Product Codes: No data available

Molecular Formula: Not applicable

Molecular Weight: Not applicable

Manufacturer/Supplier: Goodrich Corporation

Address: 1555 Corporate Woods Parkway
Uniontown, Ohio 44685

Email: Terry.Sluss@utas.utc.com

Contact Person: EH&S Manager

Business Telephone: (330)374-4011

24 Hour Emergency: (800)424-9300

Intended Use: Accelerator.

2 HAZARDS IDENTIFICATION

Physical hazards

Flammable liquids Category 2

Health hazards

Acute Inhalation	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Sensitization, skin	Category 1
Respiratory Sensitizer	Category 1
Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
Specific target organ toxicity, repeated	Category 2(Lung)

OSHA defined hazards Not classified

Label elements

Hazard symbol



Signal word Danger.

Hazard statement Highly flammable Liquid and vapors. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause damage to organs (Lung) through prolonged or repeated exposure.

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Wear eye/face protection. In case of inadequate ventilation, wear respiratory protection.

Response In case of fire: Use appropriate media to extinguish. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. Specific treatment is urgent (see this label). If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If exposed or concerned: Call a poison center /doctor.

Storage Store away from incompatible materials. Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal Dispose of contents/container in accordance with local regulations.

Hazard(s) not otherwise classified (HNOC) Not applicable.

Supplemental information Reacts slowly with water.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance or Mixture: Mixture

Chemical Name	CAS-No.	Concentration (%)
Polymethylene polyphenyl isocyanate	9016-87-9	60
Containing: Diphenylmethane diisocyanate	101-68-8	20-25
Methyl ethyl ketone	78-93-3	40

Components not listed are not hazardous or are below reportable limits.

4	FIRST AID MEASURES
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Inhalation: If inhaled, move to fresh air. If breathing is difficult, keep at rest in a position comfortable for breathing. Call a poison center/doctor if you feel unwell.

Eye contact: Rinse with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention if irritation develops and persists.

Skin Contact: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs; keep head lower than the hips to help prevent aspiration. Never give anything by mouth to an unconscious person. Get medical attention.

Expected acute and delayed symptoms: Dermatitis. Irritation of nose and throat. Rash. Severe eye irritation. May cause respiratory irritation. Coughing. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Prolonged exposure may cause chronic effects. May cause damage to organs through prolonged or repeated exposure.

Personal protection for first-aid responders: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Notes to physician: Treat symptomatically.

5	FIRE-FIGHTING MEASURES
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Extinguishing Media: Water spray, dry chemical, carbon dioxide, foam.

Specific Hazards: Reacts slowly with water. May polymerize at temperatures above 160°C (320°F). Container may rupture from gas generation in a fire situation.

Special Fire Fighting Procedures: Self contained breathing apparatus and full protective clothing must be worn in case of fire. Stop leak if you can do it without risk. Use water to keep fire exposed containers cool and disperse vapors. Prevent buildup of vapors or gases to explosive concentrations.

Unusual Fire & Explosion Hazards: Reacts slowly with water. May polymerize at temperatures above 160°C (320°F). Container may rupture from gas generation in a fire situation. Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back.

Fire-fighting equipment/instructions: Move containers from fire area if you can do so without risk.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides, cyanide compound.

6	ACCIDENTAL RELEASE MEASURES
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Personal Precautions, Protective Equipment and Emergency Measures: Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Do not breathe vapors. Avoid contact with eye, skin and clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. **Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.**

Clean-up Methods and Materials and Containment Measures: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Small Liquid Spills: Wipe up or use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Large Spillages: Contain spill. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use water spray to reduce mist/vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Container must be labeled. Dispose of collected material as soon as possible. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental Precautions: Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

7	HANDLING AND STORAGE
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Handling: Personal Precautionary Measures: Wear appropriate personal protective equipment. Do not breathe the mist or vapor. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Handle in closed system. Wash thoroughly after handling. Keep out of the reach of children. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

Prevention of Fire and Explosion: Keep away from ignition sources, heat, sparks and flames. Keep away from strong oxidizing agents. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquid. Keep away from incompatible materials (see section 10 of the sds).

Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Protect from sunlight. Store away from heat. Store away from oxidizing agents.

Special Handling Instructions: In addition to any precautions listed, consult occupational safety and health specialist to ensure that the suggested procedures will be adequate and in compliance with applicable laws and regulations.

8	EXPOSURE CONTROLS / PERSONAL PROTECTION
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Occupational exposure limits:

Chemical Name	Source	Type	Exposure Limits	Notes
Polymethylene polyphenyl isocyanate (CAS9016-87-9)	OSHA	Ceiling	0.02 ppm 0.2 mg/m3	--
Methylene diphenyl diisocyanate (CAS 101-68-8)	OSHA	Ceiling	0.2 mg/m3	--
Methyl ethyl ketone (CAS 78-93-3)	OSHA	PEL	590 mg/m3	
Polymethylene polyphenyl isocyanate (CAS9016-87-9)	ACGIH	TWA	0.005 ppm	Respiratory sensitizer
Methylene diphenyl diisocyanate (CAS 101-68-8)	ACGIH	TWA	0.005 ppm	Respiratory sensitizer
Methyl ethyl ketone (CAS 78-93-3)	ACGIH	STEL TWA	300 ppm 200 ppm	
Methylene diphenyl diisocyanate (CAS 101-68-8)	US NIOSH	Ceiling	0.2 mg/m3	--
Methylene diphenyl diisocyanate (CAS 101-68-8)	US NIOSH	TWA	0.02 ppm 0.05 mg/m3 0.005 ppm	--
Polymethylene polyphenyl isocyanate (CAS9016-87-9)	US NIOSH	Ceiling	0.2 mg/m3	
Polymethylene polyphenyl isocyanate (CAS9016-87-9)	US NIOSH	TWA	0.02 ppm 0.05 mg/m3 0.005 ppm	
Methyl ethyl ketone (CAS 78-93-3)	US NIOSH	STEL	885 mg/m3	
Methyl ethyl ketone (CAS 78-93-3)	US NIOSH	TWA	300 ppm 590 mg/m3 200 ppm	

Biological limit values:

Components	Value	Determinant	Specimen	Sampling Time
Methyl ethyl ketone (CAS 78-93-3).	2 mg/l	MEK	Urine	*

* - For sampling details, please see the source document.

Engineering Measures: Explosion-proof general and local exhaust ventilation. Ensure adequate ventilation. Depending on use, process enclosures, local exhaust ventilation, or other engineering controls may be required to keep airborne contaminants below established exposure limits.

Personal Protective Equipment

Respiratory Protection: Respiratory Protection: If engineering controls do not keep airborne concentrations below established exposure limits, follow NIOSH guidelines in determining appropriate respirator protection.

Eye Protection: Wear safety glasses with side shields (or goggles) full-face respirator, if needed.

Hand Protection: Wear chemical-resistant gloves (e.g. nitrile or latex).

Skin and Body Protection: Wear flame resistant coveralls, lab coat, or apron to prevent skin contact.

Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.

9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance

Color: Brown.

Odor: Musty.

Physical State: Liquid.

Odor Threshold: No data available.

pH: Not applicable.

Boiling Point: No data available

Melting Point: Not applicable.

Softening Point: Not applicable.

Flash Point: -4 °C (25°F).

Evaporation Rate: No data available.

Flammability Limit – Upper (vol %): No data available.

Flammability Limit – Lower (vol %): No data available.

Vapor Pressure: No data available.

Vapor Density (Air=1): No data available.

Specific Gravity: 1.025.

Solubility in Water: Reacts with water.

Partition Coefficient (n-Octanol/water): No data available.

Autoignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity: No data available.

Volatiles: 40% by wt. or 50% by vol.

10	STABILITY AND REACTIVITY
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Stability: Stable under recommended handling and storage conditions. Material reacts slowly with water.

Conditions to Avoid: **Avoid:** Excessive heat, ignition sources, sparks, flame, and moisture.

Incompatible Materials: Strong oxidizing agents, water, metals, polyols, moist organic absorbents.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides, and cyanide compounds.

Hazardous Polymerizations: Will not occur.

11	TOXICOLOGICAL INFORMATION
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Acute Toxicity:

Test Results	Chemical Name
Oral LD ₅₀ (Rat): 9200 mg/kg	Diphenylmethane diisocyanate
Inhalation LC ₅₀ (Rat): 178 mg/m ³	Diphenylmethane diisocyanate
Dermal LD ₅₀ (Rabbit): >9400 mg/kg	Polymethylene polyphenyl isocyanate
Oral LD ₅₀ (Rat): 49 g/kg	Polymethylene polyphenyl isocyanate
Inhalation LC ₅₀ (Rat): 490 mg/m ³ /4H	Polymethylene polyphenyl isocyanate
Eye (Rabbit): 80 mg, Minimal to moderate irritation	Methyl ethyl ketone
Skin (Rabbit): 500 mg/24H, Moderate irritation	Methyl ethyl ketone
Dermal LD ₅₀ (Rabbit): 6480 mg/kg	Methyl ethyl ketone
Oral LD ₅₀ (Rat): 2737 mg/kg	Methyl ethyl ketone
Inhalation LC ₅₀ (Rat): 23500 mg/m ³ /8H	Methyl ethyl ketone

Information on likely routes of exposure

Ingestion May cause irritation to the digestive system. Symptoms include irritation, vomiting, and diarrhea.

Inhalation Harmful if inhaled. Mist or vapor irritating to the respiratory system. Can cause allergic respiratory reaction. Symptoms may include coughing, asthmatic breathing, headache and other systemic effects. Decreased lung function has been associated with overexposure to isocyanates.

Isocyanates: At room temperature, vapors are minimal due to low volatility. However, certain operations may generate vapor or mist concentrations sufficient to cause respiratory irritation and other adverse effects. Such operations include those in which the material is heated, sprayed or otherwise mechanically dispersed such as drumming, venting or pumping. Excessive exposure may cause irritation to upper respiratory tract (nose and throat) and lungs. May cause pulmonary edema (fluid in the lungs.) Effects may be delayed. Decreased lung function has been associated with overexposure to isocyanates.

Skin contact Causes skin irritation. May cause an allergic skin reaction. Exposure may cause rash, redness, itching, and inflammation.

Eye contact Causes serious eye irritation. Exposure may cause eye tearing, redness and discomfort.

Symptoms related to the physical, chemical and toxicological characteristics

Dermatitis. Irritation of nose and throat. Rash. Severe eye irritation. May cause respiratory irritation. Coughing. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Prolonged exposure may cause chronic effects. May cause damage to lungs through prolonged or repeated exposure.

Information on toxicological effects

Acute toxicity Harmful if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.

Skin corrosion/irritation Causes skin irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Signs/symptoms may include redness, swelling, blistering, and itching.

Serious eye damage/eye Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, irritation, tearing, and blurred or hazy vision.

Respiratory or skin sensitization

Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Listed Carcinogens:

Chemical Name	IARC	NTP	OSHA	ACGIH
Polyethylene polyphenyl isocyanate (CAS 9016-87-9)	3 Not classifiable as to carcinogenicity to humans.	--	--	--
Methylene diphenyl diisocyanate (CAS 101-68-8)	3 Not classifiable as to carcinogenicity to humans.	--	--	--

Reproductive toxicity	Due to lack of data the classification is not possible.
Specific target organ toxicity - single exposure	May Cause respiratory tract irritation. May cause drowsiness and dizziness.
Specific target organ toxicity - repeated exposure	Lungs
Aspiration hazard	Due to lack of data the classification is not possible.
Further information:	None

12	ECOLOGICAL INFORMATION
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Ecotoxicity	Accumulation in aquatic organisms is expected. Avoid releasing to the environment.
Persistence and Degradability	The product is not expected to be readily biodegradable.
Bioaccumulation	No data available.
Mobility in Soil	No data available.
Other hazardous	None known.

13	DISPOSAL CONSIDERATIONS
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General Information: Dispose in accordance with applicable federal, state, and local regulations. Mix with compatible chemical which is less flammable and incinerate.

Residual Waste: Dispose in accordance with applicable federal, state, and local regulations.

Contaminated Packaging: Empty containers of this material may contain residual liquid, vapors or dust. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container. Precautions previously cited should be observed with such containers. Follow label warnings even after container is emptied.

14	TRANSPORT INFORMATION
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General Information: The transportation classification in this section is meant as a guide to the overall classification of the product and may be subject to change as a result of varying package sizes and/or updates to the specific regulations. Consult the specific shipping requirements under the appropriate transportation authority [IMO/IMDG, ICAO/IATA, 49 CFR, TDG, etc.] to assure regulatory compliance.

DOT:

UN No.: 1193

Proper Shipping Name: Methyl ethyl ketone mixture

Class: 3

Packaging Group: II

Label(s): Flammable liquid

TDG:

UN No.: 1193

Proper Shipping Name: Methyl ethyl ketone mixture

Class: 3

Packaging Group: II

Label(s): Flammable liquid

IATA:

UN No.: 1193

Proper Shipping Name: Methyl ethyl ketone mixture

Class: 3

Packaging Group: II

Environmental Hazard: No

Label(s): Flammable liquid

IMDG:

UN No.: 1193

Proper Shipping Name: Methyl ethyl ketone mixture

Class: 3

Packaging Group: II

Marine Pollutant: No

Label(s): Flammable liquid

15 REGULATORY INFORMATION

US federal regulations All components are on the U.S. EPA TSCA Inventory List. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Methylene diphenyl diisocyanate (CAS 101-68-8) LISTED

Polymethylene polyphenyl isocyanate (CAS 9016-87-9) LISTED

Methyl ethyl ketone (CAS 78-93-3) Listed

SARA Title III (Emergency Planning & Community Right-to-Know Act (EPCRA))**Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):** None**Section 311/312 (40 CFR 370):**

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

Section 313 Toxic Release Inventory (40 CFR 372):

Component	CAS No.	Concentration
Polymethylene polyphenyl isocyanate	9016-87-9	100%
Methylene diphenyl diisocyanate	101-68-8	40-50%

Clean Air Act (CAA) Section 112, 1990 Amendments, Statutory Hazardous Air Pollutants:

Methylene diphenyl diisocyanate (CAS 101-68-8)
 Polymethylene polyphenyl isocyanate (CAS 9016-87-9)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40CFR 68.130): None

Clean Water Act Section 307 Toxic Pollutants (40 CFR 401.15): None

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None

Drug Enforcement Act:

Drug Enforcement Administration (21 CFR 1310.02(b) and 1310.04 (f)(2)):

Methyl ethyl ketone (CAS 78-93-3) 6714

Drug Enforcement Administration (21 CFR 1310.12(c)): Methyl ethyl ketone

TSCA:

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) (revised, effective January 16, 2007):
None

ITAR, US Munitions List, Category V, Explosives & Energetic Materials, Propellants, Incendiary Agents and their Constituents (22 CFR 121): None

Homeland Security:

ATF List of Explosive Materials (27 CFR 555.23 as amended): None

State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Not listed.

US. Massachusetts RTK - Substance List

Methylene diphenyl diisocyanate (CAS 101-68-8)
 Polymethylene polyphenyl isocyanate (CAS 9016-87-9)

Methyl ethyl ketone (CAS 78-93-3)

US. New Jersey Worker and Community Right-to-Know Act

Methylene diphenyl diisocyanate (CAS 101-68-8)
 Polymethylene polyphenyl isocyanate (CAS 9016-87-97)
 Methyl ethyl ketone (CAS 78-93-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Methylene diphenyl diisocyanate (CAS 101-68-8)
 Polymethylene polyphenyl isocyanate (CAS 9016-87-9)
 Methyl ethyl ketone (CAS 78-93-3)

US. Rhode Island RTK

Methylene diphenyl diisocyanate (CAS 101-68-8)
 Polymethylene polyphenyl isocyanate (CAS 9016-87-9)
 Methyl ethyl ketone (CAS 78-93-3)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippine	Inventory of Chemicals and Chemical Substances (PICCS) Philippines	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16 OTHER INFORMATION

Hazard Ratings

	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
NFPA	3	3	0	--

	Health Hazard	Fire Hazard	Reactivity Hazard
HMIS	3*	3	1

0 – Minimal; 1 – Slight; 2 – Moderate; 3 – Serious; 4 – Severe; * – Chronic health effect

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