

SAFETY DATA SHEET

1. Identification

Product identifier	A-1343-B
Other means of identification	
CAS number	9016-87-9
Synonyms	Goodrich Kit Components: 74-451-150; 74-451-163; 74-451-201; 76-150-2. * Goodrich Kits: 74-451-W; 74-451-AC; 74-451-AE; 74-451-AF; 76-150.
Recommended use	Accelerator.
Recommended restrictions	None known.
Manufacturer/Importer/Supplie	er/Distributor information
Supplier	
Company name	Goodrich Corporation
Address	Collins Aerospace, Interiors - Evacuation, Water & Lighting (Formerly De-icing and Specialty Systems) 1555 Corporate Woods Parkway
	Uniontown, Ohio 44685
	USA
E-mail	Terry.Sluss@utas.utc.com
Contact name	EH&S Manager
Telephone number	(330)374-4011
Emergency telephone number	(800)424-9300/ 1-703-741-5970

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2B
	Sensitization, respiratory	Category 1
	Sensitization, skin	Category 1
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, repeated exposure	Category 2 (Lungs, Respiratory system)
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Harmful if inhaled. Causes skin irritation. Caus symptoms or breathing difficulties if inhaled. M respiratory irritation. May cause damage to org	es eye irritation. May cause allergy or asthma lay cause an allergic skin reaction. May cause gans (Lungs, Respiratory system) through

Precautionary statement Prevention

Do not breathe mist/vapors. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Wear protective gloves. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

prolonged or repeated exposure.

Response	If on skin: Wash with plenty of water. 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. 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. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse.
Storage	Store in a well-ventilated place. 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	None.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Diphenylmethane Diisocyanate, isomers and homologues		9016-87-9	100
Constituents Chemical name		CAS number	%
4,4'-methylenediphenyl diisocya	anate	101-68-8	30 - 50
Composition comments	Occupational Exposure Limits for constituents	s are listed in Section 8.	
	All concentrations are in percent by weight ur percent by volume.	iless ingredient is a gas. Gas	concentrations are in
	Note: CAS 101-68-8 is an MDI isomer that is	part of CAS 9016-87-9.	
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in artificial respiration if needed. Do not use mor Induce artificial respiration with the aid of a po proper respiratory medical device. If experien or doctor/physician.	a position comfortable for bu uth-to-mouth method if victim ocket mask equipped with a c cing respiratory symptoms:	reathing. Oxygen or inhaled the substance. one-way valve or other Call a POISON CENTER
Skin contact	Remove contaminated clothing immediately a eczema or other skin disorders: Seek medica contaminated clothing before reuse.	and wash skin with soap and I attention and take along the	water. In case of ese instructions. Wash
	An MDI skin decontamination study demonstri important, and that a polyglycol-based skin cl and water.	rated that cleaning very soon eanser or corn oil may be mo	after exposure is ore effective than soap
Eye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Get	or at least 15 minutes. Remove t medical attention if irritation	ve contact lenses, if develops and persists.
Ingestion	Rinse mouth. Get medical attention if sympto poison control center. Never give anything by convulsions.	ms occur. Do not induce vom mouth to a victim who is und	niting without advice from conscious or is having
Most important symptoms/effects, acute and delayed	Irritation of eyes. Exposed individuals may ex cause respiratory irritation. Coughing. Difficul pain. May cause an allergic skin reaction. De chronic effects.	perience eye tearing, rednes ty in breathing. Skin irritation rmatitis. Rash. Prolonged exp	s, and discomfort. May . May cause redness and posure may cause
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre Symptoms may be delayed. Maintain adequa cause respiratory sensitization or asthma-like antitussives may be of help. Treat bronchosp corticosteroids. Respiratory symptoms, include receiving significant exposure should be obse you are sensitized to diisocyanates, consult y irritants or sensitizers. Treatment of exposure the clinical condition of the patient. Excessive other respiratory disorders (e.g. emphysema,	at symptomatically. Keep vic te ventilation and oxygenatio symptoms. Bronchodilators, asm with inhaled beta2 agon ling pulmonary edema, may l erved 24-48 hours for signs o our physician regarding work should be directed at the co exposure may aggravate pro- bronchitis, reactive airways	tim under observation. In of the patient. May expectorants and ist and oral or parenteral be delayed. Persons f respiratory distress. If king with other respiratory ntrol of symptoms and eexisting asthma and dysfunction syndrome).

General information	IF exposed or concerned: Get medical advice/attention. 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 Spray or Fog. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective. Powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Water. Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Material reacts slowly with water, releasing carbon dioxide which can cause pressure buildup and rupture of closed containers. Elevated temperatures accelerate this reaction. Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is produced when product burns. During fire, hazardous combustion products are released that may include: Carbon oxides (COx). Nitrogen Oxides (NOx). Isocyanates. Hydrogen cyanide.
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. Containers can build up pressure if exposed to heat (fire). Cool containers exposed to heat with water spray and remove container, if no risk is involved. 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	No unusual fire or explosion hazards noted.
6. Accidental release meas	ures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Spilled/leaked product presents a slipping hazard. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for	The product is immiscible with water and will sediment in water systems.
containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Do NOT use absorbent materials such as: Cement powder (Note: may generate heat). Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
	Suitable containers include: Metal drums. Plastic drums. Polylined fiber pacs. Wash the spill site with large quantities of water. Attempt to neutralize by adding suitable decontaminant solution: Formulation 1: sodium carbonate 5 - 10%; liquid detergent 0.2 - 2%; water to make up to 100%, OR Formulation 2: concentrated ammonia solution 3 - 8%; liquid detergent 0.2 - 2%; water to make up to 100%. If ammonia is used, use good ventilation to prevent vapor exposure. Contact your supplier for clean-up assistance.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Do not breathe mist or vapor. Do not get this material in your eyes, on your skin, or on your clothing. When using, do not eat, drink or smoke. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Observe good industrial hygiene practices.
	Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.
Conditions for safe storage, including any incompatibilities	Store locked up. Avoid contact with water and moisture. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Avoid long-term storage at temperatures below 15°C and above 35°C.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits Constituents	for Air Contaminants (29 CFR 1910.1 Type	l000) Value
4,4'-methylenediphenyl diisocyanate (CAS 101-68-8)	Ceiling	0.2 mg/m3
		0.02 ppm
US. ACGIH Threshold Limi	t Values	
Constituents	Туре	Value
4,4'-methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0.005 ppm
US. NIOSH: Pocket Guide t	o Chemical Hazards	
Constituents	Туре	Value
4,4'-methylenediphenyl diisocyanate (CAS 101-68-8)	Ceiling	0.2 mg/m3
		0.02 ppm
	TWA	0.05 mg/m3
		0.005 ppm
Biological limit values	No biological exposure limits noted f	or the ingredient(s).
Appropriate engineering controls	applicable, use process enclosures, maintain airborne levels below recor established, maintain airborne levels adequate. Provide eyewash station. recommended.	local exhaust ventilation, or other engineering controls to nmended exposure limits. If exposure limits have not been to an acceptable level. General ventilation normally Eye wash fountain and emergency showers are
Individual protection measures	s, such as personal protective equipn	nent
Eye/face protection	Wear safety glasses with side shield	s (or goggles).
Skin protection		
Hand protection	Wear appropriate chemical resistant Butyl rubber. Polyethylene. Chlorina	gloves. The following glove materials are recommended: ted polyethylene. Ethyl vinyl alcohol laminate ("EVAL")
Skin protection		
Other	Wear appropriate chemical resistant	clothing. Use of an impervious apron is recommended.
Respiratory protection	If engineering controls do not mainta limits (where applicable) or to an acc been established), an approved resp cartridge and full facepiece. Use a p for an uncontrolled release, exposur- air-purifying respirators may not prov	in airborne concentrations below recommended exposure eeptable level (in countries where exposure limits have not virator must be worn. Chemical respirator with organic vapor positive-pressure air-supplied respirator if there is any potential e levels are not known, or any other circumstances where vide adequate protection.
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.
General hygiene considerations	Observe any medical surveillance re measures, such as washing after ha smoking. Routinely wash work cloth Contaminated work clothing should r	quirements. Always observe good personal hygiene ndling the material and before eating, drinking, and/or ing and protective equipment to remove contaminants. not be allowed out of the workplace.
9. Physical and chemical	properties	
Annoaranaa		

9

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Brown.
Odor	Musty
Odor threshold	0.4 ppm (Odor is inadequate warning of excessive exposure).
рН	Not available.
A 1242 D	

Melting point/freezing point	Forms crystals below 10°C
Initial boiling point and boiling range	Decomposes prior to boiling.
Flash point	> 399.2 °F (> 204.0 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 1x10-5 mmHg @ 25°C (77°F).
Vapor density	8.5
Relative density	1.23 @ 25°C (77°F).
Solubility(ies)	
Solubility (water)	Insoluble, reacts with water resulting in the evolution of CO2.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	> 1112 °F (> 600 °C)
Other information	
Dynamic viscosity	160 - 240 mPa.s at 25 °C ASTM D4889
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
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	Diisocyanates react with many materials and the rate of reaction increases with temperature as well as increased contact; these reactions can become violent. Contact is increased with stirring or if the other material mixes with the diisocyanate. Diisocyanates are not soluble in water and sink to the bottom, but react slowly at the interface. The reaction forms carbon dioxide gas and a layer of solid polyurea. Reaction with water will generate carbon dioxide and heat. Polymerization can be catalyzed by: Strong bases. Water.
Conditions to avoid	Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials. Moisture. Heat, sparks, flames.
Incompatible materials	Strong oxidizers. Acids. Alcohols. Amines. Ammonia. Bases. Moisture. Avoid contact with metals such as: Aluminum. Zinc. Brass. Tin. Copper.
Hazardous decomposition	No hazardous decomposition products are known.

Hazardous decomposition No haza products

11. Toxicological information

Information on likely routes of exposure

2	
Inhalation	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause irritation to the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes eye irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause respiratory irritation. Coughing. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity

Harmful if inhaled.

Product	Species	Test Results
Diphenylmethane Diisocyanate, iso	mers and homologues (CAS 90	16-87-9)
<u>Acute</u>		
Dermal		
LD50	Rat	> 9400 mg/kg
Oral		
LD50	Rat	> 10000 mg/kg
Constituents		l est Results
	e (CAS 101-68-8)	
Inhalation		
Aerosol		
LC50	Rat	2.24 mg/l, 1 hours
		0.387 mg/l, 4 hours
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes eye irritation.	
Respiratory or skin sensitization		
Respiratory sensitization	May cause allergy or asthma s	ymptoms or breathing difficulties if inhaled.
	Reexposure to extremely low is in individuals already sensitized	socyanate concentrations may cause allergic respiratory reactions d.
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	Genetic toxicity data on MDI are inconclusive. MDI was weakly positive in some in vitro studies; other in vitro studies were negative. Animal mutagenicity studies were predominantly negative	
Carcinogenicity	Lung tumors have been observed in laboratory animals exposed to respirable aerosol droplets of MDI/Polymeric MDI (6 mg/m3) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects reported for MDI.	
IARC Monographs. Overall E	valuation of Carcinogenicity	
4,4'-methylenediphenyl dii Diphenylmethane Diisocya homologues (CAS 9016-8 NTP Report on Carcinogens	socyanate (CAS 101-68-8) anate, isomers and 7-9)	3 Not classifiable as to carcinogenicity to humans.3 Not classifiable as to carcinogenicity to humans.
Not listed.		
OSHA Specifically Regulated	I Substances (29 CFR 1910.10	01-1053)
Reproductive toxicity	This product is not expected to MDI/polymeric MDI did not cau which were toxic to the mother	cause reproductive or developmental effects. In laboratory animals, se birth defects; other fetal effects occurred only at high doses
Specific target organ toxicity - single exposure	May cause respiratory irritation	
Specific target organ toxicity - repeated exposure	May cause damage to organs exposure.	(Lungs, Respiratory system) through prolonged or repeated
	Tissue injury in the upper respi after repeated excessive expos	ratory tract and lungs has been observed in laboratory animals sures to MDI/polymeric MDI aerosols.
Aspiration hazard	Based on physical properties, r	not likely to be an aspiration hazard.
Chronic effects	Prolonged exposure may cause	e chronic effects.
12. Ecological information		
Ecotoxicity	The product is not classified as possibility that large or frequen	environmentally hazardous. However, this does not exclude the t spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results
Diphenylmethane Diis	socyanate, isomers a	and homologues (CAS 9016-87-9)	
Aquatic			
Algae	NOEC	Desmodesmus subspicatus	1640 mg/l, 72 hours Static test, Growth rate inhibition, OECD Test Guideline 201 or Equivalent
Other	EC50	Activated sludge	> 100 mg/l, 3 hours Static test, Respiration rates.,
Acute			
Crustacea	EC50	Daphnia magna	> 1000 mg/l, 24 hours OECD Test Guideline 202 or equivalent.
Fish	LC50	Danio rerio	> 1000 mg/l, 96 hours OECD Test Guideline 203 or equivalent.
Terrestrial			
	EC50	Avena sativa	1000 mg/l Growth inhibition
		Lactuca sativa	1000 mg/l Growth inhibition
Other	EC50	Eisenia veneta	> 1000 mg/kg, 14 days

* Estimates for product may be based on additional component data not shown.

Persistence and degradability	In the aquatic and terrestrial environment, material reacts with water forming predominantly insoluble polyureas which appear to be stable. In the atmospheric environment, material is expected to have a short tropospheric half-life, based on calculations and by analogy with related diisocyanates. 10-day Window: Not applicable Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 302C or Equivalent.
Bioaccumulative potential	Bioconcentration factor (BCF): 92 Cyprinus carpio (Carp) 28 d.
	Diphenylmethane Diisocyanate, isomers and homologues: Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Reacts with water. In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas. Bioconcentration factor (BCF): 92 Cyprinus carpio (Carp) 28 d. 4,4'-methylenediphenyl diisocyanate: Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Reacts with water. In the aquatic and terrestrial environment, movement is expected to be limited by its reaction greater and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas. Bioconcentration factor (BCF): 92 Cyprinus carpio (Carp) 28 d.
Mobility in soil	In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.
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. 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	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information **US** federal regulations 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. **TSCA Chemical Action Plans, Chemicals of Concern** 4,4'-methylenediphenyl diisocyanate (CAS 101-68-8) Methylene Diphenyl Diisocyanate (MDI) And Related Compounds Action Plan [RIN 2070-ZA15] Methylene Diphenyl Diisocyanate (MDI) And Related Compounds Diphenylmethane Diisocyanate, isomers and homologues (CAS 9016-87-9) Action Plan [RIN 2070-ZA15] CERCLA Hazardous Substance List (40 CFR 302.4) 4,4'-methylenediphenyl diisocyanate (CAS 101-68-8) Listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed. **Toxic Substances Control Act (TSCA)** This substance is on the TSCA 8(b) inventory and is designated "active". Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes chemical **Classified hazard** Acute toxicity (any route of exposure) Skin corrosion or irritation categories Serious eye damage or eye irritation Respiratory or skin sensitization Specific target organ toxicity (single or repeated exposure) SARA 313 (TRI reporting) **Chemical name CAS** number % by wt. Diphenylmethane Diisocyanate, isomers and 9016-87-9 100 homologues 4,4'-methylenediphenyl diisocyanate 101-68-8 30 - 50 Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List 4,4'-methylenediphenyl diisocyanate (CAS 101-68-8) Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Safe Drinking Water Act Not regulated. (SDWA) US state regulations **US. Massachusetts RTK - Substance List** 4.4'-methylenediphenyl diisocyanate (CAS 101-68-8) US. New Jersey Worker and Community Right-to-Know Act 4,4'-methylenediphenyl diisocyanate (CAS 101-68-8) Diphenylmethane Diisocyanate, isomers and homologues (CAS 9016-87-9) US. Pennsylvania Worker and Community Right-to-Know Law 4.4'-methylenediphenyl diisocyanate (CAS 101-68-8) US. Rhode Island RTK 4,4'-methylenediphenyl diisocyanate (CAS 101-68-8)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

4,4'-methylenediphenyl diisocyanate (CAS 101-68-8) Diphenylmethane Diisocyanate, isomers and homologues (CAS 9016-87-9)

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)	No
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
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	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, including date of preparation or last revision

Issue date	24-December-2019
Revision date	24-December-2019
Version #	02
HMIS® ratings	Health: 2* Flammability: 0 Physical hazard: 0
NFPA ratings	2 0
List of abbreviations	LD50: Lethal Dose, 50%. LC50: Lethal Concentration, 50%. EC50: Effective Concentration, 50%. TWA: Time weighted average.
References	ACGIH ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices EPA: AQUIRE database HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity
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.