

	LY	apment insulation Aun	COIVE
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SECTION 1. PRODUCT AND C	OMP		
Trade name	:	InsulGrip® Adhesive	
Monufacturar ar aunaliaria	dataila		
Manufacturer or supplier's	uetaiis		
Company	:	Johns Manville	
Address	:	P.O. Box 5108	
		Denver, CO USA 80217-5108	
Telephone	:	+1-303-978-2000	
Emergency telephone	:	24-Hour Number: +1-800-424-93	800 (CHEMTREC)
number			
Company	:	Johns Manville Canada Inc.	
Address	:	5301 42 Avenue	
		Innisfail, AB Canada T4G 1A2	

+1-303-978-2000

24-Hour Number: +1-800-424-9300 (CHEMTREC)

Recommended use of the chemical and restrictions on use

2

:

Recommended use	: Adhesives
Restrictions on use	: For industrial use only.
Prepared by	: productsafety@jm.com

#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Hazardous Products Regulations

Not a hazardous substance or mixture.

#### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### Other hazards

Telephone

number

Emergency telephone

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical nature**

Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
2,5-Furandione, polymer with ethenylbenzene	9011-13-6	>= 5 - < 10
Ethanol, 2,2',2"-nitrilotris-	102-71-6	>= 1 - < 5
Urea	57-13-6	>= 1 - < 5

Actual concentration or concentration range is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

General advice

: Handle in accordance with good industrial hygiene and safety



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		practice.	
If inhaled	:	Remove person to fresh air. If signs/syr medical attention.	nptoms continue, get
In case of skin contact	:	In case of contact, flush skin with plenty minutes.	
In case of eye contact	:	Call a physician if irritation develops or Rinse immediately with plenty of water, for at least 5 minutes. If easy to do, remove contact lens, if wo Protect unharmed eye. If eye irritation persists, consult a specia	also under the eyelids, orn.
If swallowed	:	DO NOT induce vomiting unless directed physician or poison control center. Gently wipe or rinse the inside of the ma Never give anything by mouth to an und If symptoms persist, call a physician or immediately.	ed to do so by a outh with water. conscious person.
Most important symptoms and effects, both acute and delayed	:	None known.	
Protection of first-aiders	:	If potential for exposure exists refer to S personal protective equipment.	Section 8 for specific

## **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Unsuitable extinguishing media		Carbon dioxide (CO2) Dry chemical Foam Water spray High volume water jet
Hazardous combustion products	:	carbon oxides styrene
Specific extinguishing methods Special protective equipment for firefighters	:	nitrogen oxides Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire, wear self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Clean contaminated floors and objects thoroughly while observing environmental regulations. The product should not be allowed to enter drains, water courses or the soil.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.



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#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion	: Normal measures for preventive fire protection.	
Advice on safe handling	: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.	
Conditions for safe storage	<ul> <li>Keep containers tightly closed in a dry, cool and well- ventilated place.</li> <li>To maintain product quality, do not store in heat or direct sunlight.</li> </ul>	
Materials to avoid	: No materials to be especially mentioned.	
Recommended storage temperature	: 41 - 122 °F / 5 - 50 °C	
Storage period Further information on storage stability	<ul> <li>12 Months</li> <li>Keep containers tightly closed in a dry, cool place.</li> <li>Do not freeze.</li> </ul>	

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol, 2,2',2"-nitrilotris-	102-71-6	TWA	5 mg/m3	CA AB OEL
		TWA	5 mg/m3	CA BC OEL
		TWA	0.5 ppm 3.1 mg/m3	CA ON OEL
		TWAEV	5 mg/m3	CA QC OEL
		TWA	5 mg/m3	ACGIH
Urea	57-13-6	TWA	10 mg/m3	US WEEL

#### Personal protective equipment

Respiratory protection :	No personal respiratory protective equipment normally required.
Hand protection Material :	Protective gloves
Remarks :	Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
	Wear safety glasses with side shields or goggles. Wear protective clothing, such as long-sleeved shirts and pants.
Hygiene measures :	Handle in accordance with good industrial hygiene and safety practice. Written instructions for handling must be available at the work place.



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#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance Colour Odour Odour Threshold pH	<ul> <li>viscous liquid</li> <li>amber, brown</li> <li>amine-like</li> <li>No data available</li> <li>6.5 - 7.5</li> </ul>
Melting point/range Boiling point/boiling range Flash point	<ul> <li>not determined</li> <li>not determined</li> <li>&gt; 93 °C</li> </ul>
Evaporation rate Flammability (solid, gas) Upper explosion limit Lower explosion limit Vapour pressure Relative vapour density Relative density	<ul> <li>No data available</li> <li>ca. 1.12 (21 °C) (Water = 1.0)</li> </ul>
Water solubility Solubility in other solvents Partition coefficient: n- octanol/water Auto-ignition temperature Thermal decomposition Viscosity Viscosity, dynamic	<ul> <li>No data available</li> <li>ca. 1,700 mPa.s</li> </ul>
Viscosity, kinematic	: No data available

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Stable under normal conditions. No hazards to be specially mentioned.
Conditions to avoid	:	None known.
Incompatible materials	:	Strong acids and strong bases
		Strong oxidizing agents
		Strong reducing agents
Hazardous decomposition products	:	In case of fire hazardous decomposition products may be produced such as: carbon oxides nitrogen oxides Ammonia styrene

# SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity



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Product:		
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 n Method: Calculation method	ng/kg
Components:		
Ethanol, 2,2',2"-nitrilotris Acute oral toxicity	<ul> <li>s-:</li> <li>LD50 (Rat, male and female): 6,4 Method: OECD Test Guideline 40</li> </ul>	
Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 40	02
<b>Urea:</b> Acute oral toxicity	: LD50 (Rat, male): 14,300 mg/kg Method: OECD Test Guideline 40	1
Skin corrosion/irritation		
Courses akin irritation		
Causes skin irritation.		
Causes skin irritation. <u>Components:</u> 2,5-Furandione, polymer Result: irritating	with ethenylbenzene:	
Components: 2,5-Furandione, polymer Result: irritating Serious eye damage/eye	irritation	
Components: 2,5-Furandione, polymer Result: irritating Serious eye damage/eye Causes serious eye irritati	irritation	
Components: 2,5-Furandione, polymer Result: irritating Serious eye damage/eye	e irritation on.	
Components: 2,5-Furandione, polymer Result: irritating Serious eye damage/eye Causes serious eye irritati Components: 2,5-Furandione, polymer	e irritation on.	5
Components: 2,5-Furandione, polymer Result: irritating Serious eye damage/eye Causes serious eye irritati Components: 2,5-Furandione, polymer Result: irritating	e irritation on. • with ethenylbenzene: No component of this product preser equal to 0.1% is identified as probab	nt at levels greater than or nogen or potential

May cause respiratory irritation. May cause drowsiness or dizziness.

## Components:

**2,5-Furandione, polymer with ethenylbenzene:** Exposure routes: Inhalation Target Organs: Respiratory system Assessment: May cause respiratory irritation.

Exposure routes: Inhalation Target Organs: Central nervous system



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Assessment: May cause drowsiness or dizziness.

#### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

#### **Components:**

#### Urea:

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l End point: Immobilization Exposure time: 24 h
		Test Type: static test
		Method: DIN 38412

#### Persistence and degradability

#### **Components:**

Ethanol, 2,2',2"-nitrilotris-:		
Biodegradability	:	Result: Readily biodegradable.

#### **Bioaccumulative potential**

#### **Components:**

Ethanol, 2,2',2"-nitrilotris-:		
Partition coefficient: n- octanol/water	:	log Pow: -2.3 (77 °F / 25 °C)
Urea:		
Partition coefficient: n-	:	log Pow: < -1.73 (72 °F / 22 °C)

# Mobility in soil

octanol/water

No data available

#### Other adverse effects

Product:

FIOUUCI.		
Ozone-Depletion Potential	:	Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

## SECTION 13. DISPOSAL CONSIDERATIONS

# **Disposal methods**

Waste from residues

: Dispose of contents/container to an approved facility in

Method: Regulation (EC) No. 440/2008, Annex, A.8



HVAC Equipment insulation Adnesive				
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Contaminated packaging	<ul> <li>accordance with local, regional, nat regulations.</li> <li>The hazard and precautionary state label also apply to any residues left</li> <li>Empty containers should be taken the handling site for recycling or dispose</li> <li>Packaging that cannot be reused a disposed or recycled in accordance and local regulations.</li> </ul>	ements displayed on the in the container. to an approved waste sal. fter cleaning must be		

# **SECTION 14. TRANSPORT INFORMATION**

# International transport regulations

Land transport USDOT: Not classified as a dangerous good under transport regulations TDG: Not classified as a dangerous good under transport regulations

Sea transport IMDG: Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO: Not classified as a dangerous good under transport regulations

## **SECTION 15. REGULATORY INFORMATION**

# **TSCA** list

TSCA - 5(a) Significant New Use Rule List of Chemicals	:	The following substance(s) is/are subject to a Significant New Use Rule: Ethanol, 2,2'-(nitrosoimino)bis-
U.S. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpart D)	:	No substances are subject to TSCA 12(b) export notification requirements.

#### **EPCRA - Emergency Planning and Community Right-to-Know Act**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 302	:	This material does not contain any components with a section 302 EHS TPQ.
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## **Clean Air Act**



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This product does not con Air Act Section 112 (40 Cl	tain any hazardous air pollutants (H. FR 61).	AP), as defined by the U.S. Clean			
•	This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).				
The following chemical(s) Intermediate or Final VOC	are listed under the U.S. Clean Air A 's (40 CFR 60.489):	Act Section 111 SOCMI			
Urea	57-13-6	1 - 5 %			
Massachusetts Right To	Know				
Ethanol, 2,2',2"	-nitrilotris-	102-71-6			
Ethanol, 2,2'-(n	Ethanol, 2,2'-(nitrosoimino)bis-				
Pennsylvania Right To K	Inow				
Water					
2,5-Furandione	2,5-Furandione, polymer with ethenylbenzene				
Ethanol, 2,2',2"	Ethanol, 2,2',2"-nitrilotris-				
Ammonium hyd	Ammonium hydroxide ((NH4)(OH))				
Methanol	Methanol				
California Prop. 65					

#### California Prop. 65

WARNING: This product can expose you to chemicals including Benzene, ethenyl-, Ethanol, 2,2'-iminobis-, Ethanol, 2,2'-(nitrosoimino)bis-, Lead, Nickel, which is/are known to the State of California to cause cancer, and Methanol, Lead, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### California Permissible Exposure Limits for Chemical Contaminants

Ethanol, 2,2',2"-nitrilotris-

102-71-6

# The components of this product are reported in the following inventories:

TSCA	: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
DSL	: On the inventory, or in compliance with the inventory

DSL

#### **SECTION 16. OTHER INFORMATION**

Further information Revision Date	:	02/03/2025
Full text of other abbreviatio	ns	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA	:	8-hour, time-weighted average



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CA AB OEL / TWA		8-hour Occupational exposure limit	
CA BC OEL / TWA		8-hour time-weighted average	
CA ON OEL / TWA		Time-Weighted Average Limit (TWA)	
CA QC OEL / TWAEV	:	Time-weighted average exposure value	
US WEEL / TWA	:	8-hr TWA	

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships: MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA -National Fire Protection Association: NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS -Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.