

SAFETY DATA SHEET

1. Identification

Product identifier Fire Block Foam Sealant

Other means of identification

Product code 14084

Recommended use Fire resistant sealant

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

Telephone

General Information 215-674-4300 **Technical** 800-521-3168

Assistance

Customer Service 800-272-4620 **24-Hour Emergency** 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International)
Website www.crcindustries.com

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

Gases under pressure

Acute toxicity, inhalation

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2

Sensitization, respiratory Category 1
Sensitization, skin Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Category 2

Specific target organ toxicity, repeated

exposure

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Health hazards



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory

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

Material name: Fire Block Foam Sealant 2629 Version #: 01 Issue date: 08-01-2014

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not apply while equipment is energized. Pressurized container: Do not pierce or burn, even after use. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not breathe mist or vapor. In case of inadequate ventilation wear respiratory protection. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection.

Response

If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash before reuse. 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 attention. Call a poison center/doctor if you feel unwell.

Storage

Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

Disposal

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

Hazard(s) not otherwise classified (HNOC)

None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Higher oligomers of M.D.I.		9016-87-9	30 - 40
4,4-Diphenylmethane diisocyanate (M.D.I.)		101-68-8	10 - 20
Alkenes, C12-24, chloro		68527-02-6	10 - 20
Dimethyl ether		115-10-6	5 - 10
Halogenated polyether polyol		86675-46-9	5 - 10
Tris(2-chloro-1-methylethyl) phosphate		13674-84-5	5 - 10
Isobutane		75-28-5	1 - 5
Propane		74-98-6	1 - 5

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

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. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. 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 if irritation develops and persists.
Ingestion	In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.
Most important symptoms/effects, acute and delayed	Coughing. Dermatitis. Irritation of nose and throat. Rash. Difficulty in breathing. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Prolonged exposure may cause chronic effects.
Indication of immediate	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

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

Unsuitable extinguishing

Water. Do not use water jet as an extinguisher, as this will spread the fire.

Dry chemical powder. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Specific hazards arising from

the chemical

media

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Special protective equipment and precautions for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without

equipment/instructions General fire hazards

risk. Containers should be cooled with water to prevent vapor pressure build up.

Extremely flammable aerosol.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. 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. 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

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

00
J

Components	Type `	, Value	
4,4-Diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)	Ceiling	0.2 mg/m3	
		0.02 ppm	
Higher oligomers of M.D.I. (CAS 9016-87-9)	Ceiling	0.2 mg/m3	
		0.02 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	

US. ACGIH Threshold Limi Components	Туре	Value	
4,4-Diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)	TWA	0.005 ppm	
Higher oligomers of M.D.I. (CAS 9016-87-9)	TWA	0.005 ppm	
Isobutane (CAS 75-28-5)	STEL	1000 ppm	
US. NIOSH: Pocket Guide t	to Chemical Hazards		
Components	Туре	Value	
4,4-Diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)	Ceiling	0.2 mg/m3	
		0.02 ppm	
	TWA	0.05 mg/m3	
		0.005 ppm	
Higher oligomers of M.D.I. (CAS 9016-87-9)	Ceiling	0.2 mg/m3	
,		0.02 ppm	
	TWA	0.05 mg/m3	
		0.005 ppm	
Isobutane (CAS 75-28-5)	TWA	1900 mg/m3	
		800 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	
	onmental Exposure Level (WEEL) Gui		
Components	Туре	Value	
Dimethyl ether (CAS 115-10-6)	TWA	1880 mg/m3	
,		1000 ppm	
ogical limit values	No biological exposure limits noted fo	or the ingredient(s).	
ropriate engineering trols	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. Eye wash facilities and emergency shower must be available when handling this product.		
vidual protection measures	s, such as personal protective equipme	ent	
Eye/face protection	Wear safety glasses with side shields	s (or goggles).	
Skin protection			
Skin protection Hand protection	Wear protective gloves such as: Nitril	e. Neoprene.	

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a Respiratory protection

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

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

Physical state Liquid. Aerosol. **Form** Amber. Color

Odor Slight petroleum. Odor threshold Not available. Not available. Ha

98.6 °F (37 °C) estimated Melting point/freezing point

Initial boiling point and boiling

range

Not available.

Flash point > 200 °F (> 93.3 °C) Tag Closed Cup

Not available. **Evaporation rate** Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

781.3 hPa estimated Vapor pressure

Vapor density Not available.

1.01 Relative density

Solubility (water) Not available. Not available. Partition coefficient

(n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. Viscosity (kinematic) Not available. Percent volatile 45.5 % estimated

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.

Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible Conditions to avoid

> materials. Alcohols.

Incompatible materials

Hazardous decomposition

products

Carbon oxides. Nitrogen oxides (NOx). Hydrogen cyanide (hydrocyanic acid). Oxides of

phosphorus. Chlorine.

11. Toxicological information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Inhalation Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by

inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Causes skin irritation. May cause an allergic skin reaction. Skin contact

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Coughing. Dermatitis. Irritation of nose and throat. Rash. Difficulty in breathing. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. May cause respiratory

irritation.

Information on toxicological effects

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

Product Species Test Results

Fire Block Foam Sealant

Acute Dermal

LD50 Rabbit 13333.333 mg/kg estimated Product Species Test Results

Oral

LD50 Rat 4146.9194 mg/kg estimated

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

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

4,4-Diphenylmethane diisocyanate (M.D.I.) (CAS

101-68-8)

3 Not classifiable as to carcinogenicity to humans.3 Not classifiable as to carcinogenicity to humans.

Higher oligomers of M.D.I. (CAS 9016-87-9)

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Reproductive toxicity

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not likely, due to the form of the product.

Chronic effects Prolonged inhalation may be harmful. May cause damage to organs through prolonged or

repeated exposure.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

Dimethyl ether 0.1
Isobutane 2.76
Propane 2.36

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 of waste from residues / unused products

This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Consult authorities before disposal. Contents under pressure. Do not

puncture, incinerate or crush. Dispose in accordance with all applicable regulations.

Hazardous waste code Not regulated.

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 UN1950

UN proper shipping name Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Special precautions for user Not available.

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

Special provisionsN82Packaging exceptions306Packaging non bulkNonePackaging bulkNone

IATA

UN number UN1950

UN proper shipping name Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk -

Packing group Not applicable.

Environmental hazards No. **ERG Code** 10L

Special precautions for user Not available.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

IMDG

UN number UN1950

UN proper shipping name AEROSOLS, LIMITED QUANTITY

Transport hazard class(es)

Class 2 Subsidiary risk -

Packing group Not applicable.

Environmental hazards

Marine pollutant No.

EmS F-D, S-U

Special precautions for user Not available.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

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

Alkenes, C12-24, chloro (CAS 68527-02-6)

1.0 % One-Time Export Notification only.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

4,4-Diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)

Higher oligomers of M.D.I. (CAS 9016-87-9)

CERCLA Hazardous Substance List (40 CFR 302.4)

4,4-Diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)

Higher oligomers of M.D.I. (CAS 9016-87-9)

Isobutane (CAS 75-28-5)

CERCLA Hazardous Substances: Reportable quantity

4,4-Diphenylmethane diisocyanate (M.D.I.) (CAS 5000 LBS

101-68-8)

Higher oligomers of M.D.I. (CAS 9016-87-9) 5000 LBS Isobutane (CAS 75-28-5) 100 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

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

4,4-Diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)

Higher oligomers of M.D.I. (CAS 9016-87-9)

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

Dimethyl ether (CAS 115-10-6) Isobutane (CAS 75-28-5) Propane (CAS 74-98-6)

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Immediate Hazard - Yes
Hazard categories Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - Yes
Reactivity Hazard - No

SARA 302 Extremely No hazardous substance

US state regulations

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

4,4-Diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)

Dimethyl ether (CAS 115-10-6)

Higher oligomers of M.D.I. (CAS 9016-87-9)

Isobutane (CAS 75-28-5) Propane (CAS 74-98-6)

US. Massachusetts RTK - Substance List

4,4-Diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)

Dimethyl ether (CAS 115-10-6)

Higher oligomers of M.D.I. (CAS 9016-87-9)

Isobutane (CAS 75-28-5) Propane (CAS 74-98-6)

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

4,4-Diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)

Higher oligomers of M.D.I. (CAS 9016-87-9)

Dimethyl ether (CAS 115-10-6) Isobutane (CAS 75-28-5) Propane (CAS 74-98-6)

US. Rhode Island RTK

4,4-Diphenylmethane diisocyanate (M.D.I.) (CAS 101-68-8)

Dimethyl ether (CAS 115-10-6)

Higher oligomers of M.D.I. (CAS 9016-87-9)

Isobutane (CAS 75-28-5) Propane (CAS 74-98-6)

US. California Proposition 65

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.

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 16.3 %

51.100(s))

Consumer products Not regulated

(40 CFR 59, Subpt. C)

State

VOC content (CA)

VOC content (CA)

VOC content (OTC)

16.3 %

International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)*AustraliaAustralian Inventory of Chemical Substances (AICS)NoCanadaDomestic Substances List (DSL)Yes

Country(s) or region	Inventory name On inventory (y	es/no)*
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
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)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all compo	pents of this product comply with the inventory requirements administered by the governing country(s)	

^{*}A "Yes" indicates that all components of this product comply 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 date08-01-2014Prepared byAllison Cho

Version # 01

Further information Not available.

HMIS® ratings Health: 2*
Flammability: 4

Physical hazard: 1 Personal protection: B

NFPA ratings Health: 2

Flammability: 4 Instability: 1

NFPA ratings



Disclaimer

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.