# SAFETY DATA SHEET

## 1. Identification

Product identifier Flexane GP Putty Resin

Other means of identification

SKU# X0025B

Recommended use Not available.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name ITW Performance Polymers

Address 35 Brownridge Rd

Unit 1

Halton Hills, ON L7G 0C6

Contact personCustomer ServiceTelephone number978-777-1100

Fax E-mail

**Emergency telephone** 

800-424-9300

number

Supplier Not available.

## 2. Hazard identification

Physical hazards Not classified.

Health hazards Acute toxicity, inhalation Category 4

Sensitization, respiratory

Category 1

Sensitization, skin

Category 1

Carcinogenicity

Category 2

Environmental hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** May cause an allergic skin reaction. Harmful if inhaled. May cause allergy or asthma symptoms or

breathing difficulties if inhaled. Suspected of causing cancer.

Precautionary statement

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Avoid breathing mist/vapours. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection.

**Response** IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep

comfortable for breathing. IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTRE/doctor. Take off contaminated clothing and wash it before reuse.

Storage Store locked up.

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

**Supplemental information** 3 % of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment. 1.5 % of the mixture consists of component(s) of unknown long-term hazards to the

aquatic environment.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
4,4'-Methylenedicyclohexyl diisocyanate		5124-30-1	1-2%
4,4'-methylenediphenyl diisocyanate		101-68-8	1-2%

Other components below reportable levels

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

## 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 centre 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.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important Difficulty in breathing. May cause an allergic skin reaction. Dermatitis. Rash.

symptoms/effects, acute and

delayed

Indication of immediate Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim medical attention and special under observation. Symptoms may be delayed.

treatment needed

**General information** 

IF exposed or concerned: Get medical advice/attention. 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

media

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Specific methods General fire hazards Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

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

No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. 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 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. 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.

## **Environmental precautions**

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

## 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

Components	Туре	Value	
4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)	TWA	0.005 ppm	
4,4'-methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0.005 ppm	

# Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended

Components	Туре	Value	
4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)	TWA	0.05 mg/m3	
		0.005 ppm	
4,4'-methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0.05 mg/m3	
		0.005 ppm	

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	
4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)	Ceiling	0.01 ppm	
	TWA	0.005 ppm	
4,4'-methylenediphenyl diisocyanate (CAS 101-68-8)	Ceiling	0.01 ppm	
	TWA	0.005 ppm	

# Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended Components Type Value

Components	туре	value
4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)	TWA	0.005 ppm
4,4'-methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0.005 ppm

# Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 1991 and 1997 ACGIH TLVs and BEIs Publication (New Brunswick Regulation 91-191)

Components	Туре	Value	
4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)	TWA	0.054 mg/m3	
		0.005 ppm	

Components	k Regulation 91-191) Type	Value
4,4'-methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0.051 mg/m3
,		0.005 ppm
Canada. Ontario OELs. (Co	ntrol of Exposure to Biological or Che	mical Agents), as amended
Components	Туре	Value
4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)	Ceiling	0.02 ppm
	TWA	0.005 ppm
4,4'-methylenediphenyl diisocyanate (CAS 101-68-8)	Ceiling	0.02 ppm
·	TWA	0.005 ppm
Canada. Quebec OELs. (Min	nistry of Labor - Regulation respecting	occupational health and safety), as amended
Components	Туре	Value
4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)	TWA	0.054 mg/m3
,		0.005 ppm
4,4'-methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0.051 mg/m3
		0.005 ppm
Canada. Saskatchewan OE	Ls (Occupational Health and Safety Re	gulations, 1996, Table 21), as amended
Components	Туре	Value
4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)	15 minute	0.015 ppm
	8 hour	0.005 ppm
4,4'-methylenediphenyl diisocyanate (CAS 101-68-8)	15 minute	0.015 ppm
	8 hour	0.005 ppm
ogical limit values	No biological exposure limits noted for	the ingredient(s).
ropriate engineering trols	Good general ventilation 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. General ventilation normally adequate.	
vidual protection measures,	such as personal protective equipme	nt
Eye/face protection	Chemical respirator with organic vapou	ır cartridge and full facepiece.

Skin protection

Wear appropriate chemical resistant gloves. **Hand protection** 

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

Respiratory protection Chemical respirator with organic vapour cartridge and full facepiece.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Observe any medical surveillance requirements. 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 Viscous. Liquid.

Physical state Liquid.
Form Liquid.
Colour Clear.
Odour Musty

Odour threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper Not available.

(%)

Vapour pressureNot available.Vapour densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Density** 1.10 g/cm³ Explosive properties Not explosive.

Flammability class Combustible IIIB estimated

Oxidising properties Not oxidising.

Specific gravity 1.1

# 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 Contact with incompatible materials.

Incompatible materials Strong oxidising agents.

Hazardous decomposition No hazardous de

products

No hazardous decomposition products are known.

# 11. Toxicological information

## Information on likely routes of exposure

**Inhalation** Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin contact** May cause an allergic skin reaction.

**Eye contact** Direct contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Difficulty in breathing. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Harmful if inhaled. Acute toxicity

Components **Species Test Results** 

4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)

**Acute** 

Dermal

LD50 Rabbit > 10000 mg/kg

Oral

LD50 Rat 1065 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitisation

Canada - Quebec OELs: Sensitizer

Sensitiser. 4,4'-Methylenedicyclohexyl diisocyanate

(CAS 5124-30-1)

4,4'-methylenediphenyl diisocyanate (CAS 101-68-8) Sensitiser.

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

Skin sensitisation May cause an allergic skin reaction.

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

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

4,4'-methylenediphenyl diisocyanate (CAS 101-68-8) 3 Not classifiable as to carcinogenicity to humans.

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

12. Ecological information

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

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

No data is available on the degradability of any ingredients in the mixture. Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

5.22 4,4'-methylenediphenyl diisocyanate

No data available. Mobility in soil

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.

Dispose in accordance with all applicable regulations. Local disposal 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).

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## 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

### **TDG**

Not regulated as dangerous goods.

#### **IATA**

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

#### Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

## **Controlled Drugs and Substances Act**

Not regulated.

## Export Control List (CEPA 1999, Schedule 3)

Not listed

### **Greenhouse Gases**

Not listed.

## **Precursor Control Regulations**

Not regulated.

## International regulations

### **Stockholm Convention**

Not applicable.

## **Rotterdam Convention**

Not applicable.

### **Kyoto Protocol**

Not applicable.

### **Montreal Protocol**

Not applicable.

## **Basel Convention**

Not applicable.

### **International Inventories**

Country(s) or region

Australia	Australian Inventory of Industrial Chemicals (AICIS)	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
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

<sup>\*</sup>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).

Toxic Substances Control Act (TSCA) Inventory

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United States & Puerto Rico

Inventory name

On inventory (yes/no)\*

Yes

## 16. Other information

Issue date 25-July-2023

Version No.

**Disclaimer** ITW Performance Polymers 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 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 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. The information given is designed only as a guidance

for safe handling, use, processing, storage, transportation, disposal and release.

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