

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Fast 2K® EXPANDING BACKFILL COMPOSITE  
PART A**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	27.09.2024	100000024363	Date of first issue: 27.09.2024
	Print Date:		
	27.09.2024		

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Product name** : Fast 2K® EXPANDING BACKFILL COMPOSITE PART A**1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of the Sub-  
stance/Mixture : PolyolRecommended restrictions  
on use : For industrial use only.**1.3 Details of the supplier of the safety data sheet**

Company : H.B. Fuller, Isar-Rakoll, S.A.

Address : Estrada Nacional 13  
PT-4486-851 Mindelo - Vila do Conde  
+351 229 288 200E-mail address of person  
responsible for the SDS : EU-MSDS@hbfuller.com**1.4 Emergency telephone number**Emergency telephone number : In case of poisoning:  
GBK-EMTEL International  
Tel.(24h):+49(0)6132/84463 (all languages)In case of transport accidents:  
Tel.(24h): (001) 352 323 3500 (Infotrac - Contract ID: 90373 /  
GBK)National Poisons Information Centre (NPIC): 01 809 2566 (24  
hours)

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Eye irritation, Category 2

H319: Causes serious eye irritation.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Fast 2K® EXPANDING BACKFILL COMPOSITE  
PART A**

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	Print Date:		
	27.09.2024		

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P280 Wear eye protection/ face protection.**Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Fast 2K® EXPANDING BACKFILL COMPOSITE  
PART A**

Version	Revision Date:	SDS Number:	Date of last issue: -
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	Print Date:		
	27.09.2024		

1,1',1",1'''- ethylenedinitrilotetrapropan-2-ol	102-60-3 203-041-4	Eye Irrit. 2; H319	>= 10 - < 20
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For explanation of abbreviations see section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- General advice : Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may even occur after several hours;  
therefore medical observation for at least 48 hours after the  
accident.
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get  
medical attention.  
In case of unconsciousness bring patient into stable side posi-  
tion for transport.
- In case of skin contact : Wash off with soap and water.  
Call a physician if irritation develops or persists.
- In case of eye contact : Immediately flush eyes for at least 15 minutes. Get medical  
attention.  
Protect unharmed eye.
- If swallowed : Do NOT induce vomiting.  
If accidentally swallowed obtain immediate medical attention.  
Rinse mouth with water.  
If conscious, drink fresh water.  
If symptoms persist, call a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

- Risks : Causes serious eye irritation.

**4.3 Indication of any immediate medical attention and special treatment needed**

- Treatment : No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-  
cumstances and the surrounding environment.  
Water mist

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Fast 2K® EXPANDING BACKFILL COMPOSITE  
PART A**

Version	Revision Date:	SDS Number:	Date of last issue: -
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	Print Date:		
	27.09.2024		

---

Foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)  
Alcohol-resistant foam

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire-fighting : No further relevant information available.

**5.3 Advice for firefighters**

Special protective equipment for firefighters : No special protective measures against fire required.

Further information : In the event of fire, wear self-contained breathing apparatus. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.

**6.2 Environmental precautions**

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Ensure adequate ventilation.  
Send for recovery or disposal in suitable containers.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

**6.4 Reference to other sections**

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Local/Total ventilation : Use only with adequate ventilation.

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**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Fast 2K® EXPANDING BACKFILL COMPOSITE  
PART A**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	27.09.2024	100000024363	Date of first issue: 27.09.2024
	Print Date:		
	27.09.2024		

Advice on safe handling : Avoid formation of dust and aerosols.  
Handle with care.  
Keep eye wash bottle available on working place.  
Avoid release to the environment.  
Keep out of reach of children.

Use only with adequate ventilation.

Advice on protection against fire and explosion : In the event of fire and/or explosion do not breathe fumes.  
Keep breathing equipment ready. Have fire extinguishing equipment ready in case of nearby fire.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage : Do not freeze. Keep tightly closed in a dry, cool and well-ventilated place. Protect against light.

Further information on storage conditions : Store in a cool place. Heat will increase pressure and may lead to the container exploding.

Advice on common storage : No special restrictions on storage with other products.

**7.3 Specific end use(s)**

Specific use(s) : No further relevant information available.

**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
Sucrose, propoxylated	Workers	Eye contact	Local effects	
	Workers	Inhalation	Systemic, long-term	98 mg/m <sup>3</sup>
	Workers	Dermal	Systemic, long-term	13,9 mg/kg
Glycerol, propoxylated	Workers	Dermal	Systemic, long-term	13,9 mg/kg
	Workers	Inhalation	Systemic, long-term	98 mg/m <sup>3</sup>
	Workers	Eye contact	Local effects	
glycerol	Workers	Inhalation	Local, long-term	220 mg/m <sup>3</sup>
	Workers	Eye contact	Local effects	

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Fast 2K® EXPANDING BACKFILL COMPOSITE  
PART A**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	27.09.2024	100000024363	Date of first issue: 27.09.2024
	Print Date:		
	27.09.2024		

Substance name	Environmental Compartment	Value
Sucrose, propoxylated	Marine water	0,02 mg/l
	Sewage treatment plant	1000 mg/l
	Marine sediment	0,054 mg/kg
	Fresh water sediment	0,543 mg/kg
	Fresh water	0,2 mg/l
Glycerol, propoxylated	Soil	0,074 mg/kg
	Soil	0,067 mg/kg
	Marine sediment	0,052 mg/kg
	Sewage treatment plant	1000 mg/l
	Fresh water	0,2 mg/l
glycerol	Fresh water sediment	0,52 mg/kg
	Marine water	0,02 mg/l
	Soil	0,141 mg/kg
	Sewage treatment plant	1000 mg/l
	Marine water	0,088 mg/l
	Fresh water	0,885 mg/l
	Marine sediment	0,33 mg/kg
	Fresh water sediment	3,3 mg/kg

**8.2 Exposure controls**
**Engineering measures**

Please take care on national and local requirements.

**Personal protective equipment**

Eye protection : Tightly fitting safety goggles or equipment with better protection

Hand protection  
Material : Nitrile rubber or equipment with better protection

Remarks : Direct contact with the product must be avoided by organizational measures.  
The glove material has to be impermeable and resistant to the product/the substance/the preparation.  
The exact break through time can be obtained from the protective glove producer and this has to be observed.  
The gloves need to be disposed after the penetration time and replaced by new ones.  
Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Fast 2K® EXPANDING BACKFILL COMPOSITE  
PART A**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	27.09.2024	100000024363	Date of first issue: 27.09.2024
	Print Date:		
	27.09.2024		

---

**For the permanent contact gloves made of the following materials are suitable:**

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the Barrier 02-100 underglove from Ansell or other suppliers (penetration time: 480 min).

**For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Butyl rubber (minimum thickness: 0.7 mm; penetration time: 15 min)

**As protection from splashes gloves made of the following materials are suitable:**

Nitril (minimum thickness 0.12 mm), Disposable gloves with long cuffs

After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable nitrile glove.

- Skin and body protection : Protective clothing
- Respiratory protection : Use respiratory protection unless adequate risk management measures (exhaust/ ventilation) are provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.  
In case of brief exposure or low pollution (exceeding of TLV) use breathing filter apparatus.  
In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
- Filter type : Organic vapour type or equipment with better protection (A)
- Protective measures : Keep away from food, drink and animal feedingstuffs.  
Instantly remove any soiled and impregnated garments.  
Wash hands before breaks and immediately after handling the product.  
Avoid contact with the eyes and skin.  
Store protective clothing separately.

**Environmental exposure controls**

- Air : Suppress (knock down) gases/vapours/mists with a water spray jet.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Fast 2K® EXPANDING BACKFILL COMPOSITE  
PART A**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	27.09.2024	100000024363	Date of first issue: 27.09.2024
	Print Date:		
	27.09.2024		

---

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Physical state	:	liquid
Colour	:	Light Amber
Odour	:	characteristic
Odour Threshold	:	is not determined
Melting point/freezing point	:	is not determined
Boiling point/boiling range	:	is not determined
Flammability	:	Not classified as a flammability hazard
Upper explosion limit / Upper flammability limit	:	Upper flammability limit is not determined
Lower explosion limit / Lower flammability limit	:	Lower flammability limit is not determined
Flash point	:	> 100 °C
Auto-ignition temperature	:	is not determined
Decomposition temperature	:	Not applicable
pH	:	substance/mixture is non-polar/aprotic
Solubility(ies) Water solubility	:	is not determined
Partition coefficient: n-octanol/water	:	no data available
Vapour pressure	:	is not determined
Density	:	1,03 g/cm <sup>3</sup>
Relative vapour density	:	is not determined

**9.2 Other information**

Explosives	:	Not explosive
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**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Fast 2K® EXPANDING BACKFILL COMPOSITE  
PART A**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	27.09.2024	100000024363	Date of first issue: 27.09.2024
	Print Date:		
	27.09.2024		

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Evaporation rate : is not determined

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

No further relevant information available.

**10.2 Chemical stability**

No decomposition if used according to the specifications.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid**

Conditions to avoid : No further relevant information available.

**10.5 Incompatible materials**

Materials to avoid : No further relevant information available.

**10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

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**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation****Skin sensitisation**

Based on available data, the classification criteria are not met.

**Respiratory sensitisation**

Based on available data, the classification criteria are not met.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Fast 2K® EXPANDING BACKFILL COMPOSITE  
PART A**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	27.09.2024	100000024363	Date of first issue: 27.09.2024
	Print Date:		
	27.09.2024		

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**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT - single exposure**

Based on available data, the classification criteria are not met.

**STOT - repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration toxicity**

Based on available data, the classification criteria are not met.

**11.2 Information on other hazards****Endocrine disrupting properties****Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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**SECTION 12: Ecological information****12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil****Product:**

Mobility : Medium: Soil  
Remarks: Do not allow product to reach ground water, water bodies or sewage system.

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**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Fast 2K® EXPANDING BACKFILL COMPOSITE  
PART A**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	27.09.2024	100000024363	Date of first issue: 27.09.2024
	Print Date:		
	27.09.2024		

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**12.5 Results of PBT and vPvB assessment****Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Endocrine disrupting properties****Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects**No data available

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product : Do not dispose of with domestic refuse.  
Do not dispose of waste into sewer.  
Hand over to disposers of hazardous waste.  
Can be deposited with household garbage after solidification following consultation with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.  
The generation of waste should be avoided or minimized wherever possible.  
Incinerate under controlled conditions in accordance with all local and national laws and regulations.  
Disposal must be made according to official regulations.

These EU waste code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other dangerous substances (according GHS) listed under section 3 of this safety datasheet is itself classified as dangerous (\*).

**Waste accruing during application:**

08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances  
08 04 10 waste adhesives and sealants other than

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Fast 2K® EXPANDING BACKFILL COMPOSITE  
PART A**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	27.09.2024	100000024363	Date of first issue: 27.09.2024
	Print Date:		
	27.09.2024		

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those mentioned in 08 04 09

**Waste accruing during cleaning:**

08 04 11\* adhesive and sealant sludges containing organic solvents or other dangerous substances

08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11

**Waste packaging:**

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 04 metallic packaging

15 01 10\* packaging containing residues of or contaminated by dangerous substances.

Contaminated packaging : Disposal must be made according to official regulations.

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**SECTION 14: Transport information****14.1 UN number or ID number**

Not regulated as a dangerous good

**14.2 UN proper shipping name**

Not regulated as a dangerous good

**14.3 Transport hazard class(es)**

Not regulated as a dangerous good

**14.4 Packing group**

Not regulated as a dangerous good

**14.5 Environmental hazards**

Not regulated as a dangerous good

**14.6 Special precautions for user**

Not applicable

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable for product as supplied.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, : Conditions of restriction for the following entries should be considered:

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Fast 2K® EXPANDING BACKFILL COMPOSITE  
PART A**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	27.09.2024	100000024363	Date of first issue: 27.09.2024
	Print Date:		
	27.09.2024		

---

mixtures and articles (Annex XVII)	Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (SVHC, Article 59)	: Compliant
Regulation (EC) 2024/590 on substances that deplete the ozone layer	: Compliant
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Compliant
RoHS: 2011/65/EU, Restriction of Hazardous Substances	: Compliant
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	: Neither banned nor restricted
Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Compliant
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Not applicable
Volatile organic compounds	: Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0,05 %

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

TSCA	: All substances listed as active on the TSCA inventory
DSL	: All components of this product are on the Canadian DSL

**15.2 Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this mixture.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Fast 2K® EXPANDING BACKFILL COMPOSITE  
PART A**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	27.09.2024	100000024363	Date of first issue: 27.09.2024
	Print Date:		
	27.09.2024		

**SECTION 16: Other information****Full text of H-Statements**

H319 : Causes serious eye irritation.

**Full text of other abbreviations**

Eye Irrit. : Eye irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

Other information : This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Fast 2K® EXPANDING BACKFILL COMPOSITE  
PART A**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	27.09.2024	100000024363	Date of first issue: 27.09.2024
	Print Date:		
	27.09.2024		

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Contact Point : Prepared by: Global Regulatory Department  
EU-MSDS@hbfuller.com

**Classification of the mixture:**

Eye Irrit. 2

H319

**Classification procedure:**

Calculation method

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.

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**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Product name** : FAST 2K PART B**1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of the Sub-  
stance/Mixture : Isocyanate based productRecommended restrictions  
on use : For industrial use only.**1.3 Details of the supplier of the safety data sheet**

Company : H.B. Fuller, Isar-Rakoll, S.A.

Address : Estrada Nacional 13  
PT-4486-851 Mindelo - Vila do Conde  
+351 229 288 200E-mail address of person  
responsible for the SDS : EU-MSDS@hbfuller.com**1.4 Emergency telephone number**Emergency telephone number : In case of poisoning:  
GBK-EMTEL International  
Tel.(24h):+49(0)6132/84463 (all languages)In case of transport accidents:  
Tel.(24h): (001) 352 323 3500 (Infotrac - Contract ID: 90373 /  
GBK)National Poisons Information Centre (NPIC): 01 809 2566 (24  
hours)

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 4 H332: Harmful if inhaled.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Danger

Hazard statements :  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P260 Do not breathe mist or vapours.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.**Response:**P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

**Hazardous components which must be listed on the label:**

 Diphenylmethanediisocyanate, polymeric  
 4,4'-methylenediphenyl diisocyanate

**Additional Labelling**

"As from 24 August 2023 adequate training is required before industrial or professional use."

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**
**3.2 Mixtures**
**Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Diphenylmethanediisocyanate, polymeric	9016-87-9	STOT RE 2; H373 (Respiratory Tract) Carc. 2; H351 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)  specific concentration limit Eye Irrit. 2; H319 ≥ 5 % STOT SE 3; H335	≥ 70 - < 90

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

 Version  
1.2

 Revision Date:  
27.09.2024  
Print Date:  
27.09.2024

 SDS Number:  
100000022357

 Date of last issue: 06.10.2023  
Date of first issue: 06.10.2023

		>= 5 % Skin Irrit. 2; H315 >= 5 % Resp. Sens. 1; H334 >= 0,1 %	
		Acute toxicity estimate  Acute inhalation toxicity (dust/mist): 1,5 mg/l	
4,4'-methylenediphenyl diisocyanate	101-68-8 202-966-0 615-005-00-9 01-2119457014-47-0000	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373  specific concentration limit Eye Irrit. 2; H319 >= 5 % STOT SE 3; H335 >= 5 % Skin Irrit. 2; H315 >= 5 % Resp. Sens. 1; H334 >= 0,1 %	>= 50 - < 70
		Acute toxicity estimate  Acute inhalation toxicity (dust/mist): 1,5 mg/l	

For explanation of abbreviations see section 16.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

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**SECTION 4: First aid measures****4.1 Description of first aid measures**

- General advice : Even minimal concentrations of isocyanate can lead to a reaction in sensitised people.  
Symptoms that may occur include the following:  
irritation of the eyes, nose, throat and lungs, possibly together with a dry throat, a feeling of chest tightness and breathing difficulties.
- Immediately remove clothing if soiled by product.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
In case of unconsciousness bring patient into stable side position for transport.
- In case of skin contact : Wash off with polyethylene glycol and afterwards with plenty of water.  
Use a mild soap if available.  
Treat affected skin with cotton wool or cellulose.  
Call a physician if irritation develops or persists.
- In case of eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.  
Protect unharmed eye.
- If swallowed : Do NOT induce vomiting.  
If accidentally swallowed obtain immediate medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

- Risks : 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.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

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**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment : In instances of existing sensitisation towards isocyanates, a doctor should be consulted with regards to work-related contact with other sensitising substances, or substances which irritate the airway.

Treatment for exposure should be geared towards monitoring symptoms and the patient's clinical condition. It must be ensured that the patient has sufficient ventilation and oxygen supply.

Isocyanates can cause sensitisation of the airways, or asthma-like symptoms (bronchospasms). Delayed breathing symptoms, including lung oedema, may occur.

People who have shown signs of breathlessness after considerable exposure should remain under observation for 24-48 hours.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Alcohol-resistant foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : Do NOT use water jet.

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire-fighting : May release toxic, irritating and/or corrosive gases. In case of fire CO, NO<sub>x</sub>, isocyanates and traces of HCN can be formed.

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.  
Use breathing protection against the effects of fumes/dust/aerosol.  
Evacuate personnel to safe areas.  
Ensure adequate ventilation.

**6.2 Environmental precautions**

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Ensure adequate ventilation.  
Send for recovery or disposal in suitable containers.

**6.4 Reference to other sections**

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Take note of emission threshold.  
Avoid formation of aerosol.  
Do not heat the product.  
Ensure that suitable extractors are available on processing machines.  
Handle with care. Avoid inhalation and skin contact.  
Keep eye wash bottle available on working place.  
Avoid release to the environment.  
Keep out of reach of children.

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the vapor concentration below the work-place limit, wear an adequate respiratory protective device.

Advice on protection against fire and explosion : In the event of fire and/or explosion do not breathe fumes.  
Keep breathing equipment ready. Have fire extinguishing equipment ready in case of nearby fire.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage : Do not freeze. Keep tightly closed in a dry, cool and well-ventilated place. Protect against light.

Further information on storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Never allow product to get in contact with water during storage.

**7.3 Specific end use(s)**

Specific use(s) : No further relevant information available.

**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**
**Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Diphenylmethanediisocyanate, polymeric	9016-87-9	OELV - 8 hrs (TWA)	0,02 mg/m <sup>3</sup> (NCO)	IE OEL
	Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis			
		OELV - 15 min (STEL)	0,07 mg/m <sup>3</sup> (NCO)	IE OEL
	Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis			
		OELV - 8 hrs (TWA)	0,005 ppm (NCO)	IE OEL
	Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis			
4,4'-methylenediphenyl diisocyanate	101-68-8	OELV - 8 hrs (TWA)	0,005 ppm (NCO)	IE OEL
	Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis			

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

Substance name	End Use	Exposure routes	Potential health effects	Value
4,4'-methylenediphenyl diisocyanate	Workers	Eye contact	Local effects	
	Workers	Inhalation	Local, long-term	0,05 mg/m <sup>3</sup>
	Workers	Inhalation	Local, short-term	0,1 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
4,4'-methylenediphenyl diisocyanate	Soil	1 mg/kg
	Fresh water	1 mg/l
	Marine water	0,1 mg/l
	Sewage treatment plant	1 mg/l

**8.2 Exposure controls**
**Engineering measures**

Please take care on national and local requirements.  
Use local exhaust ventilation or other engineering controls to minimize exposures.

**Personal protective equipment**

Eye protection : Tightly fitting safety goggles or equipment with better protection

Hand protection  
Material : Nitrile rubber or equipment with better protection

Remarks : Direct contact with the product must be avoided by organizational measures.

The glove material has to be impermeable and resistant to the product/the substance/the preparation.  
The exact break through time can be obtained from the protective glove producer and this has to be observed.  
The gloves need to be disposed after the penetration time and replaced by new ones.  
Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

**For the permanent contact gloves made of the following materials are suitable:**

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

---

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the Barrier 02-100 underglove from Ansell or other suppliers (penetration time: 480 min).

**For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Butyl rubber (minimum thickness: 0.7 mm; penetration time: 15 min)

**As protection from splashes gloves made of the following materials are suitable:**

Nitril (minimum thickness 0.12 mm), Disposable gloves with long cuffs

After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable nitrile glove.

Skin and body protection : Protective clothing

When carrying out activities where unintentional skin contact with the isocyanate-based product may occur (e.g. during maintenance work, or when opening a barrel), wear long-sleeved protective clothing and gloves.

Respiratory protection : Use respiratory protection unless adequate risk management measures (exhaust/ ventilation) are provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.  
In case of brief exposure or low pollution (exceeding of TLV) use breathing filter apparatus.  
In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Filter type : For short term, use combination charcoal and particulate filter or equipment with better protection.

Protective measures : Instantly remove any soiled and impregnated garments.  
Wash hands before breaks and immediately after handling the product.  
Avoid contact with the eyes and skin.  
Store protective clothing separately.  
Keep away from food, drink and animal feedingstuffs.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

---

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Physical state	:	liquid
Colour	:	brown
Odour	:	slight
Odour Threshold	:	is not determined
Melting point/freezing point	:	is not determined
Boiling point/boiling range	:	is not determined
Flammability	:	Not classified as a flammability hazard
Flash point	:	Not applicable
Auto-ignition temperature	:	is not determined
Decomposition temperature	:	Not applicable
pH	:	is not determined
Solubility(ies)	:	
Water solubility	:	partly soluble, reacts with water
Partition coefficient: n-octanol/water	:	no data available
Density	:	1,23 g/cm <sup>3</sup>
Relative vapour density	:	is not determined

**9.2 Other information**

Explosives	:	Not explosive
Evaporation rate	:	is not determined

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

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**10.2 Chemical stability**

No decomposition if used according to the specifications.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : Reacts with alcohols, amines, aqueous acids and alkalis.  
Mixture reacts with water resulting in evolution of CO<sub>2</sub>.  
Evolution of CO<sub>2</sub> in closed containers causes overpressure and produces a risk of bursting.

**10.4 Conditions to avoid**

Conditions to avoid : No further relevant information available.

**10.5 Incompatible materials**

Materials to avoid : Amines  
Strong acids and strong bases

**10.6 Hazardous decomposition products**

In case of fire hazardous decomposition products may be produced such as:  
Nitrogen oxides (NO<sub>x</sub>)  
Isocyanates

Additional information: Open and release pressure carefully with pressurised containers.

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**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Harmful if inhaled.

**Product:**

Acute inhalation toxicity : Acute toxicity estimate: 1,25 mg/l  
Exposure time: 4 Hours  
Test atmosphere: dust/mist  
Method: Calculation method

**Components:****Diphenylmethanediisocyanate, polymeric:**

Acute inhalation toxicity : Acute toxicity estimate: 1,5 mg/l  
Test atmosphere: dust/mist  
Method: Expert judgement

**4,4'-methylenediphenyl diisocyanate:**

Acute inhalation toxicity : Acute toxicity estimate: 1,5 mg/l  
Test atmosphere: dust/mist

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

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Method: Expert judgement

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation****Skin sensitisation**

May cause an allergic skin reaction.

**Respiratory sensitisation**

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

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Suspected of causing cancer.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT - single exposure**

May cause respiratory irritation.

**STOT - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration toxicity**

Based on available data, the classification criteria are not met.

**11.2 Information on other hazards****Endocrine disrupting properties****Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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**SECTION 12: Ecological information****12.1 Toxicity**

No data available

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

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**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil****Product:**

Mobility : Medium: Soil  
Remarks: Do not allow product to reach ground water, water bodies or sewage system.

**12.5 Results of PBT and vPvB assessment****Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Endocrine disrupting properties****Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects**

No data available

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product : Do not dispose of with domestic refuse.  
Do not dispose of waste into sewer.  
Hand over to disposers of hazardous waste.  
The generation of waste should be avoided or minimized wherever possible.  
Incinerate under controlled conditions in accordance with all local and national laws and regulations.  
Disposal must be made according to official regulations.

These EU waste code numbers are recommendations for waste accruing through the use of adhesives and sealants.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

---

Any waste produced from organic solvents or other dangerous substances (according GHS) listed under section 3 of this safety datasheet is itself classified as dangerous (\*).

**Waste accruing during application:**

08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances  
08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

**Waste accruing during cleaning:**

08 04 11\* adhesive and sealant sludges containing organic solvents or other dangerous substances  
08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11

**Waste packaging:**

15 01 01 paper and cardboard packaging  
15 01 02 plastic packaging  
15 01 04 metallic packaging  
15 01 10\* packaging containing residues of or contaminated by dangerous substances.

Contaminated packaging : Disposal must be made according to official regulations.

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**SECTION 14: Transport information****14.1 UN number or ID number**

Not regulated as a dangerous good

**14.2 UN proper shipping name**

Not regulated as a dangerous good

**14.3 Transport hazard class(es)**

Not regulated as a dangerous good

**14.4 Packing group**

Not regulated as a dangerous good

**14.5 Environmental hazards**

Not regulated as a dangerous good

**14.6 Special precautions for user**

Not applicable

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable for product as supplied.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 74, 3
		Diphenylmethanediisocyanate, polymeric (Number on list 74) 4,4'-methylenediphenyl diisocyanate (Number on list 74)
		4,4'-methylenediphenyl diisocyanate (Number on list 74)
REACH - Candidate List of Substances of Very High Concern for Authorisation (SVHC, Article 59)	:	Compliant
Regulation (EC) 2024/590 on substances that deplete the ozone layer	:	Compliant
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Compliant
RoHS: 2011/65/EU, Restriction of Hazardous Substances	:	Compliant
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	:	Neither banned nor restricted
Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Compliant

H2

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

---

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Not applicable

**Other regulations:**

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

TSCA : All substances listed as active on the TSCA inventory

AIIC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

**15.2 Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this mixture.

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**SECTION 16: Other information****Full text of H-Statements**

H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

Version	Revision Date:	SDS Number:	Date of last issue: 06.10.2023
1.2	27.09.2024	100000022357	Date of first issue: 06.10.2023
	Print Date:		
	27.09.2024		

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 : May cause respiratory irritation.

H351 : Suspected of causing cancer.

H373 : May cause damage to organs through prolonged or repeated exposure.

H373 : May cause damage to organs through prolonged or repeated exposure if inhaled.

**Full text of other abbreviations**

Acute Tox. : Acute toxicity

Carc. : Carcinogenicity

Eye Irrit. : Eye irritation

Resp. Sens. : Respiratory sensitisation

Skin Irrit. : Skin irritation

Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure

STOT SE : Specific target organ toxicity - single exposure

IE OEL : Ireland. List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 and 2

IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)

IE OEL / OELV - 15 min (STEL) : Occupational exposure limit value (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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)

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**FAST 2K PART B**

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tative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

Other information : This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Contact Point : Prepared by: Global Regulatory Department  
EU-MSDS@hbfuller.com

**Classification of the mixture:**

Acute Tox. 4	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
Carc. 2	H351
STOT SE 3	H335
STOT RE 2	H373

**Classification procedure:**

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

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.

IE / EN