

SAFETY DATA SHEET

INSTAPAK® SIMPLYFLEX™ COMPONENT "B"

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name	: INSTAPAK® SIMPLYFLEX™ COMPONENT "B"
Product code	: Not available.
Product description	: Polyether Polyol Resin mixture for use in Instapak® Simple™ foam dispensing equipment
Product type	: Liquid.
Other means of identification	: Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use	: Polyether Polyol Resin mixture for use in Instapak® Simple™ foam dispensing equipment
Area of application	: Industrial applications.

Uses advised against

None identified.

1.3 Details of the supplier of the safety data sheet

Sealed Air B.V.
Lindhoutseweg 45
6545 AH Nijmegen,
Nederland
Tel.: +31 (0)24 3710111

To contact Sealed Air with your Environmental, Health and Safety questions please either:

e-mail address of person responsible for this SDS : EHSinstapak@sealedair.com

National contact

Sealed Air Limited,
Telford Way, Kettering, Northants NN16 8UN England,
Telephone: 01536 315700
Fax: 01536 410576

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : Call 111 if you urgently need medical help or advice but it's not a life-threatening situation (NHS 111 service).
In Cornwall, the Scilly Isles, Luton and Bedfordshire areas call 0845 4647 (NHS Direct).
For immediate, life-threatening emergencies, call 999 (Emergency and urgent care services).

Supplier

Telephone number : Chemtrec: +44 870 8200418 and +44 203 8073798 (24/7)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Acute Tox. 4, H302

Skin Irrit. 2, H315

Eye Irrit. 2, H319

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown toxicity : 26.2 percent of the mixture consists of component(s) of unknown acute dermal toxicity
64 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

Precautionary statements

Prevention : P280 - Wear protective gloves: < 1 hour (breakthrough time): nitrile rubber, neoprene, butyl rubber, PVC, Viton®. Wear eye or face protection.
P270 - Do not eat, drink or smoke when using this product.
P264 - Wash thoroughly after handling.

Response : P362 + P364 - Take off contaminated clothing and wash it before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

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SECTION 2: Hazards identification

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
Alkyl(C9-11) alcohol, ethoxylated	REACH #: Polymer CAS: 68439-46-3	≥25 - ≤50	Acute Tox. 4, H302 Eye Dam. 1, H318	[1]
Glycerol, propoxylated	EC: 500-044-5 CAS: 25791-96-2	≥10 - ≤25	Acute Tox. 4, H302	[1]
2-[2-(dimethylamino)ethoxy]ethanol	REACH #: 01-2119976346-26 EC: 216-940-1 CAS: 1704-62-7	≤5	Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of tempered water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 4: First aid measures

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

SECTION 6: Accidental release measures

For emergency responders : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

6.2 Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 10 to 40°C (50 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations : Not available.

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SECTION 7: Handling and storage

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

None known.

Recommended monitoring procedures : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Alkyl(C9-11) alcohol, ethoxylated	DNEL	Long term Inhalation	294 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	2080 mg/kg bw/day	Workers	Systemic
Glycerol, propoxylated	DNEL	Long term Dermal	13.9 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	98 mg/m ³	Workers	Systemic
2-[2-(dimethylamino)ethoxy]ethanol	DNEL	Long term Inhalation	24.7 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	4.9 mg/kg bw/day	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
2-[2-(dimethylamino)ethoxy]ethanol	Fresh water	0.1 mg/l	Assessment Factors
	Marine water	0.01 mg/l	Assessment Factors
	Fresh water sediment	0.75 mg/kg dwt	Assessment Factors
	Sewage Treatment Plant	100 mg/l	Assessment Factors
	Soil	0.091 mg/kg dwt	Assessment Factors
	Marine water sediment	0.075 mg/kg dwt	Assessment Factors

8.2 Exposure controls

Appropriate engineering controls : Use only in well-ventilated areas.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield.

Skin protection

Hand protection :

SECTION 8: Exposure controls/personal protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): nitrile rubber, neoprene, butyl rubber, PVC, Viton®

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
- Colour** : Colourless to light yellow. [Transparent]
- Odour** : Ammonia. [Slight]
- Odour threshold** : Not available.
- Melting point/freezing point** : -7°C
- Initial boiling point and boiling range** : 100°C
- Flammability (solid, gas)** : Not available.
- Lower and upper explosion limit** : Not available.

Flash point

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
Alkyl(C9-11) alcohol, ethoxylated	>93	>199.4				

Auto-ignition temperature

Ingredient name	°C	°F	Method
Glycerol, propoxylated	305	581	EU A.15

Decomposition temperature

: Not available.

pH

: 11.1

Viscosity

: Not available.

Solubility(ies)

Media	Result
water	Easily soluble

SECTION 9: Physical and chemical properties

Miscible with water	: Yes.
Partition coefficient: n-octanol/ water	: Not applicable.
Vapour pressure	: Not available.
Evaporation rate	: Not available.
Relative density	: Not available.
Density	: 1.04 g/cm ³
Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
<u>Particle characteristics</u>	
Median particle size	: Not applicable.

9.2 Other information

Physical/chemical properties comments	: No additional information.
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SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable. Store between the following temperatures: 10°C and 40°C.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
10.4 Conditions to avoid	: Heat and open flames.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials, reducing materials, acids and alkalis.
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Alkyl(C9-11) alcohol, ethoxylated Glycerol, propoxylated	LD50 Oral	Rat	300 to 2000 mg/kg	-
	LD50 Dermal	Rat - Male, Female	>2000 mg/kg (similar material)	-
	LD50 Oral	Rat	500 mg/kg Estimated.	-
2-[2-(dimethylamino)ethoxy] ethanol	LC50 Inhalation Vapour	Rat - Male, Female	>392.2 mg/m ³	4 hours
	LD50 Dermal	Rabbit - Male, Female	1663 mg/kg	-

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SECTION 11: Toxicological information

	LD50 Oral	Rat - Male, Female	2150 to 3830 mg/kg	-
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Conclusion/Summary : Mixture: Harmful if swallowed.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Instapak SimplyFlex B	1286.3	25736.4	N/A	N/A	N/A
Alkyl(C9-11) alcohol, ethoxylated	500	N/A	N/A	N/A	N/A
Glycerol, propoxylated	500	N/A	N/A	N/A	N/A
2-[2-(dimethylamino)ethoxy]ethanol	N/A	1663	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Glycerol, propoxylated	Eyes - Mild irritant	Rabbit	-	(similar material)	-
	Skin - Mild irritant	Rabbit	-	(similar material)	-
2-[2-(dimethylamino)ethoxy] ethanol	Eyes - Visible necrosis	Rabbit	-	-	-
	Skin - Visible necrosis	Rabbit	-	1 to 4 hours	14 days

Conclusion/Summary

Skin : Mixture: On basis of test data (similar material): Irritating to skin.

Method Detail:

- 431 In Vitro Skin Corrosion: Human Skin Model Test

- 439 *In Vitro* skin irritation: Reconstructed human epidermis test

Eyes : Mixture: On basis of test data - Isolated Chicken Eye (ICE) test (similar material): Irritating to eyes.

Respiratory : Mixture: Non-irritating to the respiratory system.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Glycerol, propoxylated	skin	Guinea pig	Not sensitizing

Conclusion/Summary

Skin : Mixture: No known significant effects or critical hazards.

Respiratory : Mixture: No known significant effects or critical hazards.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Glycerol, propoxylated	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Human	Negative
2-[2-(dimethylamino)ethoxy] ethanol	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 In vitro Mammalian Cell Gene	Experiment: In vitro Subject: Mammalian-Animal	Negative

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	Mutation Test OECD 473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
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Conclusion/Summary : Mixture: No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary : Mixture: No known significant effects or critical hazards.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Glycerol, propoxylated	Negative	Negative	Negative	Rat - Male	Oral: 0 to 1000 mg/kg (similar material)	28 days; 7 days per week
	Negative	Negative	Negative	Rat - Female	Oral: 0 to 1000 mg/kg (similar material)	58 days; 7 days per week
2-[2-(dimethylamino)ethoxy] ethanol	-	-	-	Rat	Inhalation: 50.8 mg/m ³ NOAEL	-
	-	-	-	Rat	Inhalation: 3.8 to 41.2 mg/m ³ NOAEL	-
	-	-	-	Rat - Male, Female	Oral: 250 mg/kg	-
	-	-	-	Rat - Male, Female	Oral: 750 mg/kg	-

Conclusion/Summary : Mixture: No known significant effects or critical hazards.

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Glycerol, propoxylated	Negative - Oral	Rat - Female	0 to 1000 mg/kg NOAEL (similar material)	58 days

Conclusion/Summary : Mixture: No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

SECTION 11: Toxicological information

- Eye contact** : Causes serious eye irritation.
Inhalation : No known significant effects or critical hazards.
Skin contact : Causes skin irritation.
Ingestion : Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
 pain or irritation
 watering
 redness
Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following:
 irritation
 redness
Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

- Potential immediate effects** : Not available.
Potential delayed effects : Not available.

Long term exposure

- Potential immediate effects** : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Glycerol, propoxylated	Sub-acute NOAEL Oral	Rat - Male, Female	≥1000 mg/kg (similar material)	4 weeks
2-[2-(dimethylamino)ethoxy] ethanol	Sub-chronic NOAEL Dermal	Rat	>222.25 mg/kg	90 days
	Sub-chronic NOAEL Oral	Rat - Male, Female	250 mg/kg	90 days; days per week
	Sub-chronic NOAEL Oral	Rat - Male, Female	250 mg/kg	days per week

- Conclusion/Summary** : Mixture: No known significant effects or critical hazards.
General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : No known significant effects or critical hazards.

- Other information** : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Alkyl(C9-11) alcohol, ethoxylated	Acute EC50 >1 mg/l	Daphnia	48 hours
	Acute IC50 >1 mg/l	Algae	72 hours
Glycerol, propoxylated	Acute LC50 >1 mg/l	Fish	96 hours
	Acute EC10 >10000 mg/l (similar material)	Micro-organism - Activated sludge	3 hours
	Acute EC50 >100 mg/l (similar material)	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 >100 mg/l (similar material)	Daphnia - Daphnia magna	48 hours
	Acute LC50 >1000 mg/l (similar material)	Fish - Leuciscus idus	96 hours
2-[2-(dimethylamino)ethoxy] ethanol	NOEC >1000 mg/l Fresh water	Micro-organism - Activated sludge	3 hours
	Acute EC50 160 mg/l Fresh water	Algae	72 hours
	Acute EC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 320 mg/l	Fish	96 hours

Conclusion/Summary : Mixture: Not classified as dangerous (Calculation method)

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2-[2-(dimethylamino)ethoxy] ethanol	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	10 to 20 % - Readily - 28 days	-	400 mg/l
	OECD 301F Ready Biodegradability - Manometric Respirometry Test	2 % - Not readily - 28 days	-	100 mg/l

Conclusion/Summary : Mixture: No known significant effects or critical hazards.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Alkyl(C9-11) alcohol, ethoxylated	-	-	Readily
Glycerol, propoxylated	Fresh water >5 days, pH 4, 50°C (OECD 111) Fresh water >5 days, pH 7, 50°C (OECD 111) Fresh water >5 days, pH 9, 50°C (OECD 111)	-	Not readily
2-[2-(dimethylamino)ethoxy] ethanol	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Glycerol, propoxylated	-1.82 to -0.73	-	low
2-[2-(dimethylamino)ethoxy] ethanol	-0.778	-	low

SECTION 12: Ecological information

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste : Yes.

Waste catalogue

Waste code	Waste designation
16 03 05*	organic wastes containing hazardous substances
15 01 10*	packaging containing residues of or contaminated by hazardous substances

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-

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SECTION 14: Transport information

14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Substances requiring labelling : Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

SECTION 15: Regulatory information

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment

: Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

SECTION 16: Other information

Other special considerations

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Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = GB CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	Calculation method On basis of test data On basis of test data

Full text of abbreviated H statements

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Full text of classifications

Acute Tox. 4	ACUTE TOXICITY - Category 4
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2

INSTAPAK® SIMPLYFLEX™ COMPONENT "B"

SECTION 16: Other information

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