

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR Amended on: 10/04/2022

Page: 1/41

SECTION 1: Description of the material or mixture and the company

1.1 Product identifier

Product Name: iglidur® i3000-PR

1.2 Relevant identified use of material or mixture and uses advised against

Relevant identified uses: 3D printing resin

Uses advised against: direct contact with foodstuff

1.3 Details on supplier who provides the Safety Data Sheet

Company: igus® GmbH
Spicher Str. 1a
D-51147 Cologne

Telephone: +49 2203/9649-0
Fax: +49 2203/9649-222
E-mail: info@igus.de

1.4 Emergency phone number

Emergency phone number: +49 551/19240 (Poison Information Center North)

SECTION 2: Possible risks

2.1 Classification of material or mixture

Classification (CLP):

Irritation of the skin – category 2 – H315 causes skin irritation.

Sensitization of the skin – category 1 – H317 may cause an allergic skin reaction.

Serious eye irritation – category 2 – H319 causes serious eye irritation.

Chronic aquatic toxicity – category 2 – H411 toxic to aquatic life with long lasting effects.

2.2 Labelling elements



Signal word

Caution

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 2/41

Danger warning

H315 – Causes skin irritation

H317 – May cause an allergic skin reaction.

H319 – Causes serious eye irritation.

H411 – Toxic to aquatic life with long lasting effects.

Safety Notes on Prevention

P273 Avoid release to the environment.

P280 Wear protective gloves.

Safety Notes on Reaction

P333+P313 Skin irritation or skin rash: Seek medical advice / medical attention.

P337+P313 Seek medical advice / medical attention if eye irritation persists.

P302+P352 Wash with plenty of water and soap in case of skin contact.

Contains

2-hydroxyethyl methacrylate

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate

Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Methacrylic acid, 2-(2-hydroxyethoxy)ethyl ester

Glycerol, propoxylated, esters with acrylic acid 1-6.5PO

Reaction mass of pentamethyl-4-piperidyl sebacate

Ethylene dimethacrylate

Additives

2.3 Other hazards

No special hazards are known, provided that regulations/notes on proper storage and handling are observed.

In case of secondary processing of the product, appropriate prevention measures need to be taken. If dusts, fumes or mists occur during processing, use appropriate ventilation to keep exposure to air pollutants below limit values. Dust may cause mechanical irritations.

In case of unintended release, remove mechanically in order to prevent the risk of slipping or tripping. Keep away from open fire since the product is combustible.

The thermal decomposition products of this polymer may cause polymer fume fever with symptoms similar to those of influenza in humans, particularly after smoking contaminated tobacco products.

Does not meet the criteria "persistent, bioaccumulating, toxic" (PBT), "very persistent, very bio-accumulating" (vPvB).

The following substances are present at concentrations of $\geq 0.1\%$ and meet the PBT/vPvB criteria, or have been identified as endocrine disruptors (ED):

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 3/41

The mixture contains no substances at concentrations \geq concentration limits for classification as PBT, vPvB, or ED.

SECTION 3: Composition / information about components

3.1 Substances

Not applicable.

3.2 Mixtures

Information on substances pursuant to CLP (EC) No 1272/2008:

Chemical Designation	EC No.	CAS No.	Concentration [%]	Classification (1272/2008/EC)	REACH Registration Number
2-hydroxyethyl methacrylate	212-782-2	868-77-9	25 - 50	Skin irrit. 2 H315 Skin sens. 1 H317 Eye irrit. 2 H319	01-2119490169-29
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate	276-957-5	72869-86-4	20 - 40	Skin sens. 1B H317 Aquatic chronic 2 H411	01-2120751202-68
Phenyl-bis (2,4,6-trimethylbenzoyl) phosphine oxide	423-340-5	162881-26-7	1 - < 5	Skin sens. 1A, H317 Aquatic chronic 4 H413	01-2119489401-38 01-2119936813-33
Methacrylic acid, 2-(2-hydroxyethoxy)ethyl ester		2351-43-1	1 - < 5	Eye irrit. 2 H319 Skin sens. 1 H317	

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 4/41

Glycerol, propoxylated, esters with acrylic acid 1-6.5PO	500-114-5	52408-84-1	0.1 - < 1	Eye irrit. 2 H319 Skin sens. 1B H317	01-2119487948-12
Reaction mass of pentamethyl-4-piperidyl sebacate	915-687-0	1065336-91-5	0.1 - < 1	Aquatic acute 1 H400 Aquatic chronic 1 H410 Skin sens. 1A H317 Repr. 2 H361f	01-2119491304-40
Butylhydroxytoluene	204-881-4	128-37-0	0.1 - < 0.25	Aquatic acute 1 H400 Aquatic chronic 1 H410	01-2119565113-46
Methacrylic acid	201-204-4	79-41-4	0.1 - < 1	Acute tox. 4; Oral H302 Acute tox. 3; Dermal H311 Acute tox. 4; Inhalation H332 Skin corr. 1A H314 Eye dam. 1 H318 STOT SE 3 H335	01-2119463884-26

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 5/41

Ethylene dimethacrylate	202-617-2	97-90-5	0.1 - < 1	STOT SE 3 H335 Skin sens. 1 H317	01-2119965172-38
Polytetrafluoroethylene	-	9002-84-0	0 - 50	Component for which a Union workplace exposure limit exists	-

For the complete wording of H-sets and other abbreviations, see Section 16 'Other information'.

For substances without classification, country-specific values of occupational exposure limits (AGW values) may be in place.

For information regarding exposure limits and substance properties concerning persistent, bioaccumulating, toxic (PBT) substances and very persistent, very bioaccumulating (vPvB) substances, see Sections 8 and 12 of this Safety Data Sheet.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General information: The first aiders must protect themselves. Move affected persons away from the danger zone. Let them rest. Do not leave affected person unattended.

Inhalation: After inhaling decomposition products, remove affected person to fresh air and keep at rest in a position that facilitates breathing. Seek medical attention if discomforts occur.

Skin contact: Irritations or injuries may occur due to mechanical contact. Rinse affected skin area with plenty of water. If symptoms occur, consult a doctor.

Heated coating powder or molded parts for coating may cause thermal burns, which result in pain, redness and blistering. Immediately cool affected skin areas with cold water for at least 15 minutes after contact with the molten polymer. Do not peel off the solidified product from the skin. Seek immediate medical attention.

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 6/41

Eye contact: Irritations or injuries may occur due to mechanical contact. In the case of irritations caused by dusts or combustion products rinse the affected eyes for several minutes (recommended: 15 minutes) with clean water or eyewash solution while keeping the eyelids pulled open. Check for contact lenses and remove them if applicable. Consult a doctor if complaints persist.

Ingestion: Risk of suffocation due to small particles. Rinse the mouth cavity, drink 1-2 glasses of water. Seek medical advice. Do not induce vomiting.

4.2 Most important acute and delayed symptoms and effects

Skin contact: skin rash, urticaria, redness, inflammation.

Eye contact: irritation, pink eye (conjunctivitis).

4.3 Information on immediate medical assistance or special treatment

See item 4.1: Description of first-aid measures

SECTION 5: Fire-fighting measures

The product is combustible.

5.1 Fire-extinguishing agents

Suitable fire-extinguishing agents: use water spray jet, extinguishing powder, alcohol-resistant foam or carbon dioxide

Unsuitable fire-extinguishing agents: water with full jet

5.2 Special hazards arising from the substance or mixture

Dangerous combustion products: In the event of a fire, hazardous decomposition products may occur: carbon monoxide, carbon dioxide, nitrous gases, hydrogen fluorides, carbonyl fluorides, perfluoroisobutene (PFIB), as well as toxic fumes, gases or particles. Combustion gases / decomposition products of organic materials are generally classified as respiratory toxins. Under certain fire conditions traces of other noxious products cannot be ruled out.

5.3 Notes on fire-fighting

Wear self-contained breathing apparatus and full protection suit. Wear personal protective equipment.

Cool endangered containers from a safe distance with water spray jet. Settle evolving vapors with water. Watch out for flashbacks.

Prevent extinguishing water from penetrating surface water, ground water and soil.

Wear appropriate protective clothing and keep a safety distance to avoid skin contact.

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 7/41

SECTION 6: Measures after accidental release

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin. Wear protective equipment. Ensure adequate ventilation. Keep away sources of ignition.

Remove mechanically in order to prevent the risk of slipping or tripping. Avoid the formation of dust. Keep away from open fire since product is combustible. In case of major leakage or exposition in closed rooms, an extraction system must be used in order to extract or reduce vapors in accordance with the state of the art. Please observe safety information provided in other sections.

6.2 Environmental protection measures

Do not allow to penetrate soil, bodies of water, drains, drain pipes or the sewage system. Inform authorities in charge if the product has caused environmental pollution.

6.3 Methods and material for retention and cleaning

Dispose of contaminated material as waste pursuant to Section 13. Use a paper towel to wipe up small amounts spilled and place in a UN-approved container for disposal. Where large amounts are spilled, absorb with an inert absorbent material and place in a tightly sealed container for disposal. Dispose of collected material as soon as possible in accordance with local/national regulations.

6.4 References to other sections

Refer to Section 1 for emergency contact information.

Refer to Section 7 for handling and storage.

Refer to Section 8 for information regarding suitable personal protective clothing.

Refer to Section 13 for further information on waste treatment.

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 8/41

SECTION 7: Handling and storage

7.1 Protective measures for safe handling

Notes on safe handling: Good ventilation or extraction measures are required at the processing machines during processing or secondary machining. Avoid the inhalation of dusts/mists/fumes. An accumulation of dust may lead to the risk of a dust explosion. Generally prevent the accumulation of dust. Take measures against electrostatic charging. Keep away from sources of ignition.

Do not inhale gases contained in the packaging unit.

Observe general hygiene measures for handling chemicals.

Do not smoke during application. Smoking during application of the product might cause the tobacco to be contaminated with the product. The tobacco fume might contain the compounds indicated in Section 10.6 (Dangerous decomposition products).

For industrial / occupational use, only.

Keep work clothes separate from ordinary clothing, food and tobacco products. Do not eat, drink or smoke while using the product.

Wash thoroughly after use.

Do not heat the product to temperatures above 100°C.

Avoid eye and skin contact. Observe directions given in Section 8.

7.2 Conditions of safe storage, taking into consideration incompatibilities

Special storage conditions: Store in a cool, dry and well ventilated place. Ensure adequate ventilation. Do not store in passageways or staircases. Keep away sources of ignition. The product is combustible. Do not store together with strong acids, strong alkalis or oxidizing agents. Protect from exposure to direct sunlight. Keep product packaging tightly sealed until use. Keep containers sealed tightly and carefully seal containers again tightly after initial opening.

Storage class according to TRGS 510: 10

Observe the usual measures of preventive fire protection.

7.3 Specific end uses

Recommendations: 3D printing resin

Specific solutions for the industrial sector: not available

Remarks: Do not stack container packages on top of one another without securing them.

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 9/41

SECTION 8: Limitation and monitoring of exposure / personal protective equipment

8.1 Parameters to be monitored

Occupational exposure limits:

Valid for Germany

Substance [Regulated Group of Substances]	ppm	mg/m ³	Value Type	Category Short-term Value/ Remarks	Regulatory List
2,6-di-tert-butyl-p-cresol 128-37-0 [2,6-DI-TERT-BUTYL-P-CRESOL, INHALABLE FRACTION]			Category for short-term values	Category II: Substances with a resorptive effect.	Technical Rules on Hazardous Substances (TRGS 900)
2,6-di-tert-butyl-p-cresol 128-37-0 [2,6-DI-TERT-BUTYL-P-CRESOL, INHALABLE FRACTION]		10	AGW:	4 No teratogenic risk to be feared if AGW and BGW are observed (see number 2.7).	Technical Rules on Hazardous Substances (TRGS 900)
Methacrylic acid 79-41-4 [METHACRYLIC ACID]	50	180	AGW:	2 No teratogenic risk to be feared if AGW and BGW are observed (see number 2.7).	Technical Rules on Hazardous Substances (TRGS 900)
Methacrylic acid 79-41-4 [METHACRYLIC ACID]			Category for short-term values	Category I: Substances whose local effect determines the limit, or respiratory sensitizers.	Technical Rules on Hazardous Substances (TRGS 900)

Chemical Designation	CAS No.	Source	Limit Values	Additional Information
Polytetrafluoroethylene	9002-84-0	MAK as per DFG	MAK: 4 mg/m ³ (I) 0.3 mg/m ³ (A) EF: 8 (A)	Category II

MAK as per DFG: MAK and BAT value list for Occupational Health and Safety of the German Research Foundation (*Deutsche Forschungsgemeinschaft – DFG*)

I = measured as inhalable fraction

A = measured as alveolar fraction

EF = exceedance factor

Categories of "peak limitation":

-Category I: Substances whose local effect determines the limit, or respiratory sensitizers;

-Category II: Substances with a resorptive effect.

TRGS 900: ("*Arbeitsplatzgrenzwerte*") TRGS 900 values as per Technical Rules on Hazardous Substances

I / A / EF / categories of short-term values: see above

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 10/41

IV: instantaneous value

Remark Y: No teratogenic risk is to be feared if occupational exposure limits (AGW values) and maximum allowable biological concentration (BGW values) are observed.

Remark Z: A teratogenic risk cannot be ruled out even if AGW and BGW are observed.

MAK = (maximale Arbeitsplatzkonzentration) maximum concentration at the workplace

AGW = (Arbeitsplatzgrenzwert) occupational exposure limit (AGW values)

KZW = (Kurzzeitgrenzwert) short-term/excursion limit (STEL)

CEIL: maximum value that must not be exceeded at any time during work.

Predicted No-effect Concentration (PNEC):

Name from List	Environmental Compartment	Exposure Time	Value				Remarks
			mg/l	ppm	mg/kg	Other	
2-hydroxyethyl methacrylate 868-77-9	Freshwater		0.482 mg/l				
2-hydroxyethyl methacrylate 868-77-9	Salt water		0.482 mg/l				
2-hydroxyethyl methacrylate 868-77-9	Waste water treatment plant		10 mg/l				
2-hydroxyethyl methacrylate 868-77-9	Water (temporary release)		1 mg/l				
2-hydroxyethyl methacrylate 868-77-9	Sediment (freshwater)				3.79 mg/kg		
2-hydroxyethyl methacrylate 868-77-9	Sediment (salt water)				3.79 mg/kg		
2-hydroxyethyl methacrylate 868-77-9	Soil				0.476 mg/kg		
2-hydroxyethyl methacrylate 868-77-9	Carnivore						No potential of bioaccumulation
2-hydroxyethyl methacrylate 868-77-9	Seawater - temporary		1 mg/l				
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate 72869-86-4	Freshwater		0.01 mg/l				
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate 72869-86-4	Water (temporary release)		0.1 mg/l				
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate 72869-86-4	Salt water		0.001 mg/l				
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate 72869-86-4	Waste water treatment plant		3.61 mg/l				

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 11/41

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxa-5,12-diazaheptadecane-1,16-diyl bismethacrylate 72869-86-4	Sediment (freshwater)				4.56 mg/kg		
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxa-5,12-diazaheptadecane-1,16-diyl bismethacrylate 72869-86-4	Sediment (salt water)				0.46 mg/kg		
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxa-5,12-diazaheptadecane-1,16-diyl bismethacrylate 72869-86-4	Soil				0.91 mg/kg		
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxa-5,12-diazaheptadecane-1,16-diyl bismethacrylate 72869-86-4	Carnivore						No potential of bioaccumulation
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Freshwater		0.001 mg/l				
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Water (temporary release)		0.001 mg/l				
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Salt water		0.001 mg/l				
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Waste water treatment plant		1 mg/l				
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Sediment (freshwater)				0.712 mg/kg		
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Sediment (salt water)				0.712 mg/kg		
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Soil				20 mg/kg		
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	Freshwater		0.006 mg/l				
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	Water (temporary release)		0.057 mg/l				
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	Waste water treatment plant		10 mg/l				
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	Sediment (freshwater)				0.017 mg/kg		
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	Sediment (salt water)				0.002 mg/kg		

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 12/41

Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	Salt water		0.001 mg/l			
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	Oral				5.6 mg/kg	
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	Soil				0.012 mg/kg	
Reaction mass of pentamethyl-4-piperidylsebacaten 1065336-91-5	Freshwater		0.002 mg/l			
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	Salt water		0.00022 mg/l			
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	Water (temporary release)		0.009 mg/l			
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	Waste water treatment plant		1 mg/l			
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	Sediment (freshwater)				1.05 mg/kg	
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	Sediment (salt water)				0.11 mg/kg	
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	Soil				0.21 mg/kg	
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	Carnivore					No potential of bioaccumulation
2,6-di-tert-butyl-p-cresol 128-37-0	Freshwater		0.000199 mg/l			
2,6-di-tert-butyl-p-cresol 128-37-0	Salt water		0.00002 mg/l			
2,6-di-tert-butyl-p-cresol 128-37-0	Waste water treatment plant		0.17 mg/l			
2,6-di-tert-butyl-p-cresol 128-37-0	Sediment (freshwater)				0.0996 mg/kg	
2,6-di-tert-butyl-p-cresol 128-37-0	Sediment (salt water)				0.00996 mg/kg	
2,6-di-tert-butyl-p-cresol 128-37-0	Soil				0.04769 mg/kg	
2,6-di-tert-butyl-p-cresol 128-37-0	Oral				8.33 mg/kg	
2,6-di-tert-butyl-p-cresol 128-37-0	Water (temporary release)		0.00199 mg/l			

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 13/41

2,6-di-tert-butyl-p-cresol 128-37-0	Air						No hazard identified
Methacrylic acid 79-41-4	Freshwater		0.82 mg/l				
Methacrylic acid 79-41-4	Salt water		0.82 mg/l				
Methacrylic acid 79-41-4	Waste water treatment plant		10 mg/l				
Methacrylic acid 79-41-4	Water (temporal release)		0.82 mg/l				
Methacrylic acid 79-41-4	Soil				1.2 mg/kg		
Ethylene dimethacrylate 97-90-5	Freshwater		0.139 mg/l				
Ethylene dimethacrylate 97-90-5	Salt water		0.0139 mg/l				
Ethylene dimethacrylate 97-90-5	Water (temporary release)		0.15 mg/l				
Ethylene dimethacrylate 97-90-5	Waste water treatment plant		57 mg/l				
Ethylene dimethacrylate 97-90-5	Sediment (freshwater)				1.6 mg/kg		
Ethylene dimethacrylate 97-90-5	Sediment (salt water)				0.16 mg/kg		
Ethylene dimethacrylate 97-90-5	Air						No hazard identified
Ethylene dimethacrylate 97-90-5	Soil				0.239 mg/kg		
Ethylene dimethacrylate 97-90-5	Carnivore						No potential of bioaccumulation

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 14/41

Derived No-effect Level (DNEL):

Name from List	Area of Application	Exposure Route	Health Effect	Exposure Time	Value	Remarks
2-hydroxyethyl methacrylate 868-77-9	Worker	Dermal	Long-term exposure - systemic effects		1.3 mg/kg	No potential of bioaccumulation
2-hydroxyethyl methacrylate 868-77-9	Worker	Inhalation	Long-term exposure - systemic effects		4.9 mg/m3	No potential of bioaccumulation
2-hydroxyethyl methacrylate 868-77-9	Populace	Dermal	Long-term exposure - systemic effects		0.83 mg/kg	No potential of bioaccumulation
2-hydroxyethyl methacrylate 868-77-9	Populace	Inhalation	Long-term exposure - systemic effects		2.9 mg/m3	No potential of bioaccumulation
2-hydroxyethyl methacrylate 868-77-9	Populace	Oral	Long-term exposure - systemic effects		0.83 mg/kg	No potential of bioaccumulation
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Worker	Inhalation	Long-term exposure - systemic effects		21 mg/m3	
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Worker	Dermal	Long-term exposure - systemic effects		3 mg/kg	
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Populace	Inhalation	Long-term exposure - systemic effects		5.2 mg/m3	
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Populace	Dermal	Long-term exposure - systemic effects		1.5 mg/kg	
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Populace	Oral	Long-term exposure - systemic effects		1.5 mg/kg	
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	Worker	Inhalation	Long-term exposure - systemic effects		16.22 mg/m3	
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	Worker	Dermal	Long-term exposure - systemic effects		1.92 mg/kg	

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 15/41

Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	Populace	Oral	Long-term exposure - systemic effects		1.39 mg/kg	
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	Populace	Inhalation	Long-term exposure - systemic effects		4.87 mg/m3	
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	Populace	Dermal	Long-term exposure - systemic effects		1.15 mg/kg	
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	Worker	Inhalation	Long-term exposure - systemic effects		1.27 mg/m3	No potential of bioaccumulation
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	Worker	Dermal	Long-term exposure - systemic effects		1.8 mg/kg	No potential of bioaccumulation
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	Populace	Dermal	Long-term exposure - systemic effects		0.9 mg/kg	No potential of bioaccumulation
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	Populace	Inhalation	Long-term exposure - systemic effects		0.31 mg/m3	No potential of bioaccumulation
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	Populace	Oral	Long-term exposure - systemic effects		0.18 mg/kg	No potential of bioaccumulation
2,6-di-tert-butyl-p-cresol 128-37-0	Worker	Inhalation	Long-term exposure - systemic effects		3.5 mg/m3	No hazard identified
2,6-di-tert-butyl-p-cresol 128-37-0	Worker	Dermal	Long-term exposure - systemic effects		0.5 mg/kg	No hazard identified
2,6-di-tert-butyl-p-cresol 128-37-0	Populace	Inhalation	Long-term exposure - systemic effects		0.86 mg/m3	No hazard identified
2,6-di-tert-butyl-p-cresol 128-37-0	Populace	Dermal	Long-term exposure - systemic effects		0.25 mg/kg	No hazard identified
2,6-di-tert-butyl-p-cresol 128-37-0	Populace	Oral	Long-term exposure - systemic effects		0.25 mg/kg	No hazard identified

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 16/41

Methacrylic acid 79-41-4	Worker	Inhalation	Long-term exposure - local effects		88 mg/m3	
Methacrylic acid 79-41-4	Worker	Inhalation	Long-term exposure - systemic effects		29.6 mg/m3	
Methacrylic acid 79-41-4	Worker	Dermal	Long-term exposure - systemic effects		4.25 mg/kg	
Methacrylic acid 79-41-4	Populace	Inhalation	Long-term exposure - local effects		6.55 mg/m3	
Methacrylic acid 79-41-4	Populace	Inhalation	Long-term exposure - systemic effects		6.3 mg/m3	
Methacrylic acid 79-41-4	Populace	Dermal	Long-term exposure - systemic effects		2.55 mg/kg	
Ethylene dimethacrylate 97-90-5	Worker	Inhalation	Long-term exposure - systemic effects		2.45 mg/m3	No hazard identified
Ethylene dimethacrylate 97-90-5	Worker	Dermal	Long-term exposure - systemic effects		1.3 mg/kg	No hazard identified
Ethylene dimethacrylate 97-90-5	Populace	Inhalation	Long-term exposure - systemic effects		1.45 mg/m3	No hazard identified
Ethylene dimethacrylate 97-90-5	Populace	Dermal	Long-term exposure - systemic effects		0.83 mg/kg	No hazard identified
Ethylene dimethacrylate 97-90-5	Populace	Oral	Long-term exposure - systemic effects		0.83 mg/kg	No hazard identified

Maximum allowable biological concentration (*biologischer Grenzwert – BGW*):

None

Recommended monitoring procedures:

Information about recommended monitoring procedures is available at the Federal Environmental Agency (DE).

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 17/41

8.2 Limitation and monitoring of exposure

Good general room ventilation should suffice to limit workers' exposure to air contaminants. Good ventilation or extraction measures at the processing machines are required during machining.

8.2.1 Adequate technical control systems

In cases where the product is extremely overheated, either during use other than intended or due to faulty equipment, local exhaust ventilation should be applied. Such local exhaust ventilation should be adequately dimensioned to prevent occurring decomposition products from exceeding allowed limits (see also Section 10). A high air exchange rate and/or local exhaust ventilation is required to ensure compliance with prescribed limits of exposure to air contaminants and/or dust, smoke, gas, mist, vapors or spray mist. If ventilation is insufficient, use respiratory protective equipment. Local exhaust ventilation is required at high temperatures.

8.2.2 Individual protective measures, e.g., personal protective equipment

Personal protective measures

Breathing protection

Ensure adequate ventilation.

An approved respirator mask or respiratory protective equipment with a cartridge suitable for organic vapors should be worn if the product is used in an inadequately ventilated environment; filter type: A (EN 14387)

Eye / face protection

Safety goggles with side shields or tight-closing chemical safety goggles should be worn to protect against potential splashes.

Eye protection should comply with EN 166.

Other protective measures

Sealed protective clothing made of flame-retardant material. Closed safety footwear in ESD design (ESD design as per EN 61340-4-3 or equivalent).

Hand protection, skin and body protection

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, equivalent to > 30 minutes of permeation time as per EN 374):

Nitrile rubber (NBR; ≥ 0.4 mm layer thickness)

Suitable materials also for prolonged, direct contact (recommended: protection index 6, equivalent to > 480 minutes of permeation time as per EN 374):

Nitrile rubber (NBR; ≥ 0.4 mm layer thickness)

This information is based on literature references and on information provided by glove manufacturers or is derived by analogy with similar substances. It should be noted that, in practice, due to numerous factors of influence (e.g., temperature), the service life of a chemical-resistant protective glove may significantly fall short of the permeation time determined according to EN 374. The glove must be exchanged when signs of wear and tear appear.

Wear adequate protective clothing during work.

Protective clothing should comply with EN 14605, for liquid splashes, or EN 13982, for dusts.

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 18/41

Information on personal protective equipment:

Information on proposed personal protective equipment is provided solely for advisory purposes. A comprehensive risk assessment should be carried out prior to using the product in order to verify whether such indicated personal protective equipment is suitable for local conditions. Personal protective equipment should comply with relevant EU standards.

SECTION 9: Physical and chemical properties

9.1 Information on the basic physical and chemical properties

Commercial form:	liquid (liquid)
Color:	black
Odor:	like acrylate
Odor threshold:	no data available
pH value:	not applicable
Melting point / freezing point:	not determined
Initial boiling point and boiling range:	not determined
Flashpoint:	> 93°C (> 199.4 °F)
Evaporation rate:	not applicable
Flammability (solid, gaseous):	no data available
Upper/lower flammability or explosion limits	not applicable
Vapor pressure:	not applicable
Vapor density:	not determined
Density:	1.10 – 1.20 g/cm ³
Relative density:	not determined
Solubility(ies):	no data available
Distribution coefficient: n-octanol/water:	not applicable
Self-ignition temperature:	not determined
Decomposition temperature:	> 350°C
Viscosity:	not determined
Explosive properties:	no data available
Oxidizing properties:	not applicable

9.2 Additional information

No data available / not applicable.

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 19/41

SECTION 10: Stability and reactivity

10.1 Reactivity

Reacts with strong oxidizing agents, acids, reducing agents and strong alkalis.

10.2 Chemical stability

Stable at indicated storage conditions. Do not heat the product to temperatures above [refer to item 7.1].

10.3 Possible hazardous reactions

See Section 'Reactivity'.

10.4 Conditions to be avoided

Stable at normal conditions of storage and application.

10.5 Incompatible materials

Alkali and earth metals. Reactions with metallic powder may occur at temperatures exceeding 370°C.

10.6 Hazardous decomposition products

Carbon oxides

Hydrocarbons

Nitrous gases

Fast polymerization may lead to development of excessive heat and pressure.

Carbonyl fluoride

Carbon monoxide

Carbon dioxide

Hydrogen fluoride

Perfluoroisobutene (PFIB)

Toxic vapors, gases or particles

Toxic decomposition products, such as hydrogen fluoride and perfluoroisobutene (PFIB), may occur if the product is exposed to excessive temperatures due to improper use or faulty equipment.

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 20/41

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity:

The mixture is classified according to the calculation method, based on the classified substances contained in the mixture.

Hazardous Substances CAS No.	Value Type	Value	Species	Method
2-hydroxyethyl methacrylate 868-77-9	LD50	5,564 mg/kg	Rat	FDA Guideline
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate 72869-86-4	LD50	> 5,000 mg/kg	Rat	OECD Guideline 401 (Acute Oral Toxicity)
Phenyl-bis(2,4,6-trimethylbenzoyl)phosphine oxide 162881-26-7	LD50	> 2,000 mg/kg	Rat	OECD Guideline 401 (Acute Oral Toxicity)
Methacrylic acid, 2-(2hydroxyethoxy)ethyl ester 2351-43-1	LD50	5,564 mg/kg	Rat	FDA Guideline
Glycerol, propoxylated, esters with acrylic acid 16.5PO 52408-84-1	LD50	> 2,000 mg/kg	Rat	OECD Guideline 401 (Acute Oral Toxicity)
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	LD50	3,230 mg/kg	Rat	OECD Guideline 423 (Acute Oral toxicity)
Butylhydroxytoluene 128-37-0	LD50	> 6,000 mg/kg	Rat	OECD Guideline 401 (Acute Oral Toxicity)
Methacrylic acid 79-41-4	LD50	1,320 mg/kg	Rat	Equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Ethylene dimethacrylate 97-90-5	LD50	8,700 mg/kg	Rat	FDA Guideline
Polytetrafluoroethylene 9002-84-0	LD50	Estimated > 5,000 mg/kg	-	-

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 21/41

Acute dermal toxicity:

The mixture is classified according to the calculation method, based on the classified substances contained in the mixture.

Hazardous Substances CAS No.	Value Type	Value	Species	Method
2-hydroxyethyl methacrylate 868-77-9	LD50	> 5,000 mg/kg	Rabbit	Not specified
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate 72869-86-4	LD50	> 2,000 mg/kg	Rat	OECD Guideline 402 (Acute Dermal Toxicity)
Phenyl-bis(2,4,6-trimethylbenzoyl)phosphine oxide 162881-26-7	LD50	> 2,000 mg/kg	Rat	OECD Guideline 402 (Acute Dermal Toxicity)
Methacrylic acid, 2-(2-hydroxyethoxy)ethyl ester 2351-43-1	LD50	> 5,000 mg/kg	Rabbit	Not specified
Glycerol, propoxylated, esters with acrylic acid 16.5PO 52408-84-1	LD50	> 2,000 mg/kg	Rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	LD50	> 3,170 mg/kg	Rat	OECD Guideline 402 (Acute Dermal Toxicity)
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	Acute toxicity estimate (ATE)	3,171 mg/kg		Expert review
Butylhydroxytoluene 128-37-0	LD50	> 2,000 mg/kg	Rat	OECD Guideline 402 (Acute Dermal Toxicity)
Methacrylic acid 79-41-4	LD50	500 - 1,000 mg/kg	Rabbit	Dermal toxicity screening
Methacrylic acid 79-41-4	Acute toxicity estimate (ATE)	500 mg/kg		Expert review
Ethylene dimethacrylate 97-90-5	LD50	> 2,000 mg/kg	Rat	OECD Guideline 402 (Acute Dermal Toxicity)
Polytetrafluoroethylene 9002-84-0	LD50	Estimated > 5,000 mg/kg	-	-

Skin contact:

When heated: skin burns (thermal, through contact with hot material): Signs/symptoms may include burning pain, red and swollen skin as well as blistering.

Mechanical skin irritation: Signs/symptoms may include itching and redness.

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 22/41

Acute inhalative toxicity:

The mixture is classified according to the calculation method, based on the classified substances contained in the mixture.

Hazardous Substances CAS No.	Value Type	Value	Test atmosphere	Exposure Time	Species	Method
Methacrylic acid 79-41-4	LC50	> 3.6 mg/l	Dust / mist	4 h	Rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Methacrylic acid 79-41-4	Acute toxicity estimate (ATE)	3.61 mg/l				Expert review

Signs and symptoms after exposure

Based on test data and/or information on substances, this product may have the following health effects:

Inhalation:

Respiratory tract irritation: Signs/symptoms may include coughing, sneezing, rhinorrhea, headache, hoarseness, sore throat and rhinalgia.

When heated:

Information on polymer fume fever: It is a condition similar to influenza with symptoms, such as shortness of breath, chills, fever, coughing, and cyanosis. It is caused by inhaling decomposition products from fluoropolymers. Smoking tobacco contaminated with fluoropolymers may contribute to exposure to decomposition products. Symptoms usually occur after 2 hours and subside within 36-48 hours. No permanent or persistent effects on the respiratory tract have been observed.

Caustic / irritating effect on the skin:

The mixture is classified according to the calculation method, based on the classified substances contained in the mixture.

Hazardous Substances CAS No.	Result	Exposure Time	Species	Method
2-hydroxyethyl methacrylate 868-77-9	Mildly irritant	24 h	Rabbit	Draize Test
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate 72869-86-4	Unirritant	4 h	Rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Methacrylic acid, 2-(2hydroxyethoxy)ethyl ester 2351-43-1	Unirritant	24 h	Rabbit	Draize Test
Glycerol, propoxylated, esters with acrylic acid 16.5PO 52408-84-1	Unirritant	4 h	Rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 23/41

Butylhydroxytoluene 128-37-0	Unirritant	4 h	Rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Methacrylic acid 79-41-4	Caustic	3 min	Rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Ethylene dimethacrylate 97-90-5	Unirritant	24 h	Rabbit	FDA Guideline
Polytetrafluoroethylene 9002-84-0	No significant irritation	-	Human and animal	-

Skin contact:

When heated: skin burns (thermal, through contact with hot material):

Signs/symptoms may include burning pain, red and swollen skin as well as blistering.

Mechanical skin irritation: Signs/symptoms may include itching and redness.

Severe eye damage or irritation:

The mixture is classified according to the calculation method, based on the classified substances contained in the mixture.

Hazardous Substances CAS No.	Result	Exposure Time	Species	Method
2-hydroxyethyl methacrylate 868-77-9	Category 2B (mildly irritating to eyes)		Rabbit	Draize Test
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate 72869-86-4	Unirritant	24 h	Rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Methacrylic acid, 2-(2hydroxyethoxy)ethyl ester 2351-43-1	Irritant		Rabbit	Draize Test
Glycerol, propoxylated, esters with acrylic acid 16.5PO 52408-84-1	Irritant		Rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Butylhydroxytoluene 128-37-0	Mildly irritant		Rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Methacrylic acid 79-41-4	Caustic		Rabbit	Draize Test
Ethylene dimethacrylate 97-90-5	Unirritant		Rabbit	Draize Test
Polytetrafluoroethylene 9002-84-0	No significant irritation	-	-	Expert review

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 24/41

Eye contact:

When heated: thermal burns: potential signs/symptoms are: violent pain, redness, swelling and tissue destruction.

Mechanical skin irritation: Signs/symptoms may include irritation, redness, cornea laceration and epiphora.

Sensitization of respiratory tract / skin:

The mixture is classified on basis of limits, based on the classified substances contained in the mixture.

Hazardous Substances CAS No.	Result	Test type	Species	Method
2-hydroxyethyl methacrylate 868-77-9	Not sensitizing	Buehler Test	Guinea Pig	Buehler Test
2-hydroxyethyl methacrylate 868-77-9	Sensitizing	Guinea-Pig Maximization Test	Guinea Pig	Magnusson and Kligman Method
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxo- 5,12-diazahexadecane-1,16-diyl bismethacrylate 72869-86-4	Sensitizing	Local murine lymph node pattern (<i>locales Maus- Lymphnode Muster</i>)	Mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Glycerol, propoxylated, esters with acrylic acid 16.5PO 52408-84-1	Sensitizing	Local murine lymph node pattern (<i>locales Maus- Lymphnode Muster</i>)	Mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	Sensitizing	Guinea-Pig Maximization Test	Guinea Pig	OECD Guideline 406 (Skin Sensitisation)
Butylhydroxytoluene 128-37-0	Not sensitizing	Draize Test	Guinea Pig	Draize Test
Methacrylic acid 79-41-4	Not sensitizing	Buehler Test	Guinea Pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Ethylene dimethacrylate 97-90-5	Sensitizing	Local murine lymph node pattern (<i>locales Maus- Lymphnode Muster</i>)	Mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Polytetrafluoroethylene 9002-84-0	Not classified	-	Human	-

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 25/41

Germ cell mutagenicity:

The mixture is classified on basis of limits, based on the classified substances contained in the mixture.

Hazardous Substances CAS No.	Result	Study Type / Administration Route	Metabolic Activation / Exposure Time	Species	Method
2-hydroxyethyl methacrylate 868-77-9	Negative	Bacterial reverse mutation assay (e.g., Ames test)	With and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-hydroxyethyl methacrylate 868-77-9	Positive	In vitro Mammalian Chromosome Aberration Test	With and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2-hydroxyethyl methacrylate 868-77-9	Negative	Mammalian cell gene mutation patterns (<i>Säugetierzell- Genmutationsmuster</i>)	With and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Glycerol, propoxylated, esters with acrylic acid 16.5PO 52408-84-1	Negative	Bacterial reverse mutation assay (e.g., Ames test)	With and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Glycerol, propoxylated, esters with acrylic acid 16.5PO 52408-84-1	Negative	In vitro Mammalian Chromosome Aberration Test	With and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Glycerol, propoxylated, esters with acrylic acid 16.5PO 52408-84-1	Positive	Mammalian cell gene mutation patterns (<i>Säugetierzell- Genmutationsmuster</i>)	With and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Butylhydroxytoluene 128-37-0	Negative	Bacterial reverse mutation assay (e.g., Ames test)	With and without		Not specified
Butylhydroxytoluene 128-37-0	Negative	In vitro Mammalian Chromosome Aberration Test	With and without		Not specified
Butylhydroxytoluene 128-37-0	Negative	Mammalian cell gene mutation patterns (<i>Säugetierzell- Genmutationsmuster</i>)	With		Not specified
Methacrylic acid 79-41-4	Negative	Bacterial reverse mutation assay (e.g., Ames test)	With and without		Equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Ethylene dimethacrylate 97-90-5	Positive		Without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 26/41

2-hydroxyethyl methacrylate 868-77-9	Negative	Oral, via tube		Rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2-hydroxyethyl methacrylate 868-77-9	Negative	Oral, via tube		Drosophila melanogaster	Not specified
Glycerol, propoxylated, esters with acrylic acid 16.5PO 52408-84-1	Negative	Oral, via tube		Mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Butylhydroxytoluene 128-37-0	Negative	Oral, with feeding		Rat	Not specified
Methacrylic acid 79-41-4	Negative	Inhalation		Mouse	Equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)
Methacrylic acid 79-41-4	Negative	Oral, via tube		Mouse	Equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Ethylene dimethacrylate 97-90-5	Negative	Oral: not specified		Mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 27/41

Carcinogenicity:

The mixture is classified on basis of limits, based on the classified substances contained in the mixture.

Hazardous Substances CAS No.	Result	Exposure Route	Exposure Time / Treatment Frequency	Species	Sex	Method
2-hydroxyethyl methacrylate 868-77-9	Not carcinogenic	Inhalation	2 y 6 h/d, 5 d/w	Rat	Female	Equivalent or similar to OECD Guideline 451 (Carcinogenicity Studies)
2-hydroxyethyl methacrylate 868-77-9	Not carcinogenic	Inhalation	2 y 6 h/d, 5 d/w	Rat	Male	Equivalent or similar to OECD Guideline 451 (Carcinogenicity Studies)
Butylhydroxytoluene 128-37-0		Oral, with feeding	2 y, daily	Rat	Male	
Methacrylic acid 79-41-4	Not carcinogenic	Inhalation	2 y	Mouse	Male / Female	OECD Guideline 451 (Carcinogenicity Studies)
Ethylene dimethacrylate 97-90-5		Inhalation	2 years 6 hours/day, 5 days/week	Rat	Male / Female	OECD Guideline 451 (Carcinogenicity Studies)
Polytetrafluoroethylene 9002-84-0	Available data is insufficient for categorization.	Not specified	-	Several animal species	-	-

Reproductive toxicity:

The mixture is classified on basis of limits, based on the classified substances contained in the mixture.

Hazardous Substances CAS No.	Result / Value	Test Type	Exposure Route	Species	Method
2-hydroxyethyl methacrylate 868-77-9	NOAEL P ≥ 1,000 mg/kg NOAEL F1 ≥ 1,000 mg/kg	Screening	Oral, via tube	Rat	Equivalent or similar to OECD Guideline 422 (Combined Repeated Dose Toxicity Study)

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 28/41

Glycerol, propoxylated, esters with acrylic acid 16.5PO 52408-84-1	NOAEL P 750 mg/kg NOAEL F1 ≥ 750 mg/kg	Screening	Oral, via tube	Rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	NOAEL P < 221 mg/kg NOAEL F1 221 mg/kg		Oral, with feeding	Rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Butylhydroxytoluene 128-37-0	NOAEL P 500 mg/kg	Two-Generation Study	Oral, with feeding	Rat	Not specified
Methacrylic acid 79-41-4	NOAEL P 50 mg/kg NOAEL F1 400 mg/kg NOAEL F2 400 mg/kg	Two-Generation Study	Oral, via tube	Rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
Ethylene dimethacrylate 97-90-5	NOAEL P ≥ 1,000 mg/kg NOAEL F1 ≥ 1,000 mg/kg		Oral, via tube	Rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Polytetrafluoroethylene 9002-84-0	For this component / these components, no data is currently available or available data is insufficient for categorization.	-	-	-	-

Specific target organ toxicity at single exposure:

No data available.

Specific target organ toxicity at repeated exposure:

The mixture is classified on basis of limits, based on the classified substances contained in the mixture.

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 29/41

Hazardous Substances CAS No.	Result / Value	Exposure Route	Exposure Time / Application Frequency	Species	Method
2-hydroxyethyl methacrylate 868-77-9	NOAEL 100 mg/kg	Oral, via tube	49 d, daily	Rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2-hydroxyethyl methacrylate 868-77-9	NOAEL 0.352 mg/l	Inhalation	90 d, 6 h/d, 5 d/w	Rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Glycerol, propoxylated, esters with acrylic acid 16.5PO 52408-84-1	NOAEL 250 mg/kg	Oral, via tube	28-52 d, daily	Rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Butylhydroxytoluene 128-37-0	NOAEL 25 mg/kg	Oral, with feeding	Daily	Rat	Not specified
Methacrylic acid 79-41-4		Inhalation	90 d, 6 h/d, 5 d/w	Rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Ethylene dimethacrylate 97-90-5	NOAEL 100 mg/kg	Oral, via tube	Once, daily	Rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Polytetrafluoroethylene 9002-84-0	NOAEL not available	Swallowed	90 days	Rat	Haematopoietic system; not classified

Aspiration hazard:

No data available.

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 30/41

Good ventilation or extraction measures at the processing machines are required during machining.

Thermal decomposition products of fluorinated polymers may cause polymer fume fever with symptoms similar to those of influenza, particularly after smoking contaminated tobacco products.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity (Fish):

The mixture is classified according to the calculation method, based on the classified substances contained in the mixture.

Hazardous Substances CAS No.	Value Type	Value	Exposure Time	Species	Method
2-hydroxyethyl methacrylate 868-77-9	LC50	> 100 mg/l	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate 72869-86-4	LC50	10.1 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	LC50	Toxicity > Water solubility	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	LC50	5.74 mg/l	96 h	Danio rerio (reported as Brachydanio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	LC50	0.9 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Butylhydroxytoluene 128-37-0	LC50	Toxicity > Water solubility	96 h	Brachydanio rerio (new name: Danio rerio)	EU Method C.1 (Acute Toxicity for Fish)
Butylhydroxytoluene 128-37-0	NOEC	0.053 mg/l	30 d	Oryzias latipes	OECD 210 (Fish Early Life Stage Toxicity Test)
Methacrylic acid 79-41-4	LC50	85 mg/l	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	EPA OTS 797.1400 (Fish Acute Toxicity Test)
Ethylene dimethacrylate 97-90-5	LC50	15.95 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Polytetrafluoroethylene 9002-84-0	-	No data available or available data insufficient for categorization	-	-	-

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 31/41

Toxicity (Daphnia):

The mixture is classified according to the calculation method, based on the classified substances contained in the mixture.

Hazardous Substances CAS No.	Value Type	Value	Exposure Time	Species	Method
2-hydroxyethyl methacrylate 868-77-9	EC50	380 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate 72869-86-4	EC50	> 1.2 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	EC50	Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	EC50	91.4 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butylhydroxytoluene 128-37-0	EC50	0.48 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Methacrylic acid 79-41-4	EC50	> 130 mg/l	48 h	Daphnia magna	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)
Ethylene dimethacrylate 97-90-5	EC50	44.9 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity with regard to aquatic invertebrates

The mixture is classified according to the calculation method, based on the classified substances contained in the mixture.

Hazardous Substances CAS No.	Value Type	Value	Exposure Time	Species	Method
2-hydroxyethyl methacrylate 868-77-9	NOEC	24.1 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	NOEC	Toxicity > Water solubility	21 t	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 32/41

Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	NOEC	1 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Butylhydroxytoluene 128-37-0	NOEC	0.069 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Ethylene dimethacrylate 97-90-5	NOEC	5.05 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Polytetrafluoroethylene 9002-84-0	-	No data available or available data insufficient for categorization	-	-	-

Toxicity (Algae):

The mixture is classified according to the calculation method, based on the classified substances contained in the mixture.

Hazardous Substances CAS No.	Value Type	Value	Exposure Time	Species	Method
2-hydroxyethyl methacrylate 868-77-9	EC50	836 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-hydroxyethyl methacrylate 868-77-9	NOEC	400 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate 72869-86-4	NOEC	0.21 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phenyl bis(2,4,6-trimethylbenzoyl)phosphine oxide 162881-26-7	EC50	Toxicity > Water solubility	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phenyl-bis(2,4,6-trimethylbenzoyl) phosphine oxide 162881-26-7	NOEC	Toxicity > Water solubility	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	EC50	12.2 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	EC10	2.06 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	NOEC	0.22 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 33/41

Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	EC50	1.68 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Butylhydroxytoluene 128-37-0	EC50	Toxicity > Water solubility	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	EU Method C.3 (Algal Inhibition test)
Butylhydroxytoluene 128-37-0	EC10	0.4 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	EU Method C.3 (Algal Inhibition test)
Methacrylic acid 79-41-4	NOEC	8.2 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methacrylic acid 79-41-4	EC50	45 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethylene dimethacrylate 97-90-5	EC50	17.3 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethylene dimethacrylate 97-90-5	EC10	6.93 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Polytetrafluoroethylene 9002-84-0	-	No data available or available data insufficient for categorization	-	-	-

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 34/41

Toxicity with regard to micro-organisms:

The mixture is classified according to the calculation method, based on the classified substances contained in the mixture.

Hazardous Substances CAS No.	Value Type	Value	Exposure Time	Species	Method
2-hydroxyethyl methacrylate 868-77-9	EC0	> 3,000 mg/l	16 h	Pseudomonas fluorescens	Further guidelines:
Phenyl-bis(2,4,6-trimethylbenzoyl) phosphine oxide 162881-26-7	EC50	> 100 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	EC20	507 mg/l	3 h	Activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Reaction mass of pentamethyl-4- piperidyl sebacate 1065336-91-5	IC50	100 mg/l	3 h	Activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Butylhydroxytoluene 128-37-0	EC50	Toxicity > Water solubility	3 h	Activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Methacrylic acid 79-41-4	EC10	100 mg/l	17 h		Not specified
Ethylene dimethacrylate 97-90-5	EC50	570 mg/l	3 h	Activated sludge of a predominantly domestic sewage	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
Polytetrafluoroethylene 9002-84-0	-	No data available or available data insufficient for categorization	-	-	-

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 35/41

12.2 Persistence and degradability

Hazardous Substances CAS No.	Result	Test Type	Degradability	Exposure Time	Method
2-hydroxyethyl methacrylate 868-77-9	Readily biodegradable	Aerobic	92 - 100 %	14 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
7,7,9(or 7,9,9)-trimethyl-4,13- dioxo3,14-dioxo-5,12- diazahexadecane-1,16-diyl bismethacrylate 72869-86-4	Not readily biodegradable	Aerobic	22 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Phenyl bis(2,4,6- trimethylbenzoyl) phosphine oxide 162881-26-7	Not readily biodegradable	Aerobic	1 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Methacrylic acid, 2-(2hydroxyethoxy)ethyl ester 2351-43-1	Readily biodegradable	Aerobic	92 - 100 %	14 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Glycerol, propoxylated, esters with acrylic acid 1-6.5PO 52408-84-1	Readily biodegradable	Aerobic	72 - 85 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Reaction mass of pentamethyl-4- piperidyl sebacate 1065336-91-5	Not readily biodegradable	Aerobic	38 %	28 d	OECD Guideline 301 E (Ready Biodegradability: Modified OECD Screening Test)
Butylhydroxytoluene 128-37-0	Not readily biodegradable	Aerobic	4.5 %	28 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Butylhydroxytoluene 128-37-0	Not inherently biodegradable	Aerobic	5.2 - 5.6 %	35 d	OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II))
Methacrylic acid 79-41-4	Inherently biodegradable	Aerobic	100 %	14 d	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
Methacrylic acid 79-41-4	Naturally biodegradable	Aerobic	86 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Ethylene dimethacrylate 97-90-5	Readily biodegradable, but failing 10-day window	Aerobic	69 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Polytetrafluoroethylene 9002-84-0	-	No data available or available data insufficient for categorization	-	-	-

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 36/41

12.3 Bioaccumulative potential

Hazardous Substances CAS No.	Bioconcentration factor (BCF)	Exposure Time	Temperature	Species	Method
Phenyl-bis(2,4,6-trimethylbenzoyl) phosphine oxide 162881-26-7	< 5				OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	< 31.4	56 d	24.5°C	Cyprinus carpio	Further guidelines:
Butylhydroxytoluene 128-37-0	330 – 1,800	56 d		Cyprinus carpio	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
Polytetrafluoroethylene 9002-84-0	-	No data available or available data insufficient for categorization	-	-	-

12.4 Mobility in soil

Hazardous Substances CAS No.	LogPow	Temperature	Method
2-hydroxyethyl methacrylate 868-77-9	0.42	25°C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate 72869-86-4	3.39	20°C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Phenyl-bis(2,4,6-trimethylbenzoyl) phosphine oxide 162881-26-7	5.8		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	> 2.37 - 2.77	25°C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Butylhydroxytoluene 128-37-0	5.1		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Methacrylic acid 79-41-4	0.93	22°C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Ethylene dimethacrylate 97-90-5	2.4		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 37/41

12.5 Results of PBT and vPvB assessments

Hazardous substances (CAS No.)	PBT / vPvB
2-hydroxyethyl methacrylate 868-77-9	Does not meet the criteria "persistent, bioaccumulating, toxic" (PBT), "very persistent, very bioaccumulating" (vPvB).
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate 72869-86-4	Does not meet the criteria "persistent, bioaccumulating, toxic" (PBT), "very persistent, very bioaccumulating" (vPvB).
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Does not meet the criteria "persistent, bioaccumulating, toxic" (PBT), "very persistent, very bioaccumulating" (vPvB).
Glycerol, propoxylated, esters with acrylic acid 16.5PO 52408-84-1	Does not meet the criteria "persistent, bioaccumulating, toxic" (PBT), "very persistent, very bioaccumulating" (vPvB).
Reaction mass of pentamethyl-4-piperidyl sebacate 1065336-91-5	Does not meet the criteria "persistent, bioaccumulating, toxic" (PBT), "very persistent, very bioaccumulating" (vPvB).
Butylhydroxytoluene 128-37-0	Does not meet the criteria "persistent, bioaccumulating, toxic" (PBT), "very persistent, very bioaccumulating" (vPvB).
Methacrylic acid 79-41-4	Does not meet the criteria "persistent, bioaccumulating, toxic" (PBT), "very persistent, very bioaccumulating" (vPvB).
Ethylene dimethacrylate 97-90-5	Does not meet the criteria "persistent, bioaccumulating, toxic" (PBT), "very persistent, very bioaccumulating" (vPvB).

12.6 Other adverse effects

No data available.

SECTION 13: Disposal information

13.1 Waste treatment methods

Waste name: waste adhesives and waste sealants.

EC waste code no.: 08 04 09* waste adhesives and waste sealants containing organic solvents or other hazardous substances

The EWC codes are origin-related, rather than product-related. Therefore, the manufacturer cannot indicate waste codes for products that are used in various industries. Indicated codes are to be understood as recommendations for users.

Contaminated packaging: After use, tubes, containers and bottles containing residual product shall be disposed of as hazardous waste.

General: Prevent the release to the environment. Do not allow to enter sewer / surface water / ground water. Dispose of in compliance with regional, respectively national safety instructions.

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 38/41

SECTION 14: Transport information

14.1 UN number

ADR	3082
RID	3082
ADN	3082
IMDG	3082
IATA	3082

14.2 Appropriate UN shipping name

ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Urethane dimethacrylate)
RID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Urethane dimethacrylate)
ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Urethane dimethacrylate)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Urethane dimethacrylate)
IATA	Environmentally hazardous substance, liquid, n.o.s. (Urethane dimethacrylate)

14.3 Transport hazard class

ADR	9
RID	9
ADN	9
IMDG	9
IATA	9

14.4 Packaging group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

14.5 Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	marine pollutant
IATA	not applicable

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 39/41

14.6 Special precautions for the user

ADR not applicable

tunnel code:

RID not applicable

ADN not applicable

IMDG not applicable

IATA not applicable

Transport categorizations in this Section generally apply to packaged and loose goods. Exceptions SV 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG) may be used for containers with a net amount not exceeding a maximum of 5 liters of liquids, or a net mass not exceeding a maximum of 5 kg of solids, per individual or inner packaging, whereby the transport categorization of packaged goods may differ.

14.7 Bulk transport according to Annex II of the MARPOL Convention and according to the IBC Code

Not applicable

SECTION 15: Legal regulations

15.1 Regulations on safety, health and the protection of the environment/ specific legal regulations for the product or mixture

Ozone-depleting substances (ODS) as per Regulation (EC) No. 1005/2009: not applicable

Chemicals subject to the PIC procedure as per Regulation (EU) No. 649/2012: not applicable

Persistent organic pollutants (POPs) as per Regulation (EU) 2019/1021: not applicable

VOC content (2010/75/EU): <3 %

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

National regulations/information (Germany):

WGK: WGK 2: significant water hazard (Ordinance on Systems for Handling Water-polluting Substances (*Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen - AwSV*)), categorization according to AwSV, Annex 1 (5.2)

Storage class as per TRGS 510: 10

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 40/41

SECTION 16: Other information

The full hazard information text can be found in Sections 2 and 3. The complete wording of all abbreviations used in this Safety Data Sheet is indicated below:

H302 – Harmful if swallowed.
H311 – Toxic in contact with skin.
H314 – Causes severe skin burns and eye damage.
H315 – Causes skin irritation.
H317 – May cause an allergic skin reaction.
H318 – Causes serious eye damage.
H319 – Causes serious eye irritation.
H332 – Harmful if inhaled.
H335 – May cause respiratory irritation.
H361f – Suspected of damaging fertility.
H400 – Very toxic to aquatic life.
H410 – Very toxic to aquatic life with long lasting effects.
H411 – Toxic to aquatic life with long lasting effects.
H413 – May cause long lasting harmful effects to aquatic life.

Abbreviations and acronyms

ED: substance has endocrine-disrupting properties (endocrine disruptor properties)
EU OEL: substance with an occupational exposure limit (EU)
EU EXPLD 1: substance is indicated in Annex I of Regulation (EU) 2019/1148
EU EXPLD 2: substance is indicated in Annex II of Regulation (EU) 2019/1148
SVHC: substance of very high concern (SVHC – substance of very high concern) on the REACH Candidate List
EC: European Commission
REACH: Registration, Evaluation, Authorisation and Restriction of Chemical Substances (Registration, Evaluation, Authorisation and Restriction of Chemical Substances)
STOT: specific target organ toxicity (specific target organ toxicity)
PBT: persistent, bioaccumulating, toxic
vPvB: very persistent and very bioaccumulating (very persistent and very bioaccumulating)
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road (*Accord européen relatif au transport international des marchandises dangereuses par route*)
RID: Regulations for the International Transport of Dangerous Goods by Rail (*Règlement concernant le transport international ferroviaire des marchandises dangereuses*)
ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways (*Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures*)
IMDG: International Maritime Dangerous Goods Code
ICAO: International Civil Aviation Organization

The information provided above in this Safety Data Sheet is based on the current state of our knowledge and experience and describes the product with regard to safety requirements. The information shall in no manner be regarded as analysis certificate or technical data sheet, respectively a description of the quality of the goods. No agreed quality or suitability of the product for a specific

Safety Data Sheet



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® i3000-PR

Amended on: 10/04/2022

Page: 41/41

intended purpose of use may be derived from the identified types of intended use as listed in the Safety Data Sheet. The recipient of the product shall be responsible for compliance with existing laws and regulations and with property rights, if any.

This document is not subject to updating.

This is to certify that the above translation from German into English (p. 1-41) is complete and correct.

Sabine Bartsch
Königswinter, 28.11.2022

Certified translator for the Higher Regional Court of Cologne/Germany