

SAFETY DATA SHEET



INFRALIT PUR 8450-20 - All variants

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

1.1 Product identifier

Product name : INFRALIT PUR 8450-20 - All variants

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person responsible for this SDS : Prod-safe@teknos.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Sens. 1, H317

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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 : H317 - May cause an allergic skin reaction.

Precautionary statements

Prevention : P280 - Wear protective gloves.
P261 - Avoid breathing dust.

Response : P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
P362 + P364 - Take off contaminated clothing and wash it before reuse.

Storage : Not applicable.

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

Hazardous ingredients : Contains: 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Supplemental label elements : Contains isocyanates. May produce an allergic reaction.

SECTION 2: Hazards identification

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

2.3 Other hazards

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

Other hazards which do : May form explosible dust-air mixture if dispersed.
not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	REACH #: 01-2119490408-31 EC: 223-861-6 CAS: 4098-71-9 Index: 615-008-00-5	<0.1	Acute Tox. 1, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 Aquatic Chronic 2, H411 EUH071	ATE [Inhalation (dusts and mists)] = 0.03 mg/l Resp. Sens. 1, H334: C ≥ 0.5% Skin Sens. 1, H317: C ≥ 0.001%	[1] [2]

Type

- [1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit

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.

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 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 if irritation occurs.
- 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.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SECTION 4: First aid measures

- 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 adverse health effects persist or are severe. 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.
- 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- 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** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : No specific fire or explosion hazard.
- Hazardous combustion products** : Decomposition products may include the following materials:
sulfur oxides
metal oxide/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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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 dust. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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** :  Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** :  Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. 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 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Regulation on Limit Values - MAC (Austria, 12/2025) Inhalation sensitiser , Skin sensitiser. TWA 8 hours: 0.029 ppm. TWA 8 hours: 0.026 mg/m ³ . CEIL 5 minutes: 0.0056 ppm 8 times per shift. CEIL 5 minutes: 0.052 mg/m ³ 8 times per shift.
 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 0.005 ppm. TWA 8 hours: 0.046 mg/m ³ .
 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Limit value 8 hours: 0.1 mg/m ³ .
 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 10/2025) [izocijanati, svi] STELV 15 minutes: 0.07 mg/m ³ (as isocyanate). ELV 8 hours: 0.02 mg/m ³ (as isocyanate). Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 10/2025) [diizocijanati] Absorbed through skin , Skin sensitiser , Inhalation sensitiser. STELV 15 minutes: 0.02 mg/m ³ (as isocyanate). ELV 8 hours: 0.01 mg/m ³ (as isocyanate).
 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Department of Labor Inspection, Chemical Agents (Cyprus, 11/2025) [Διιοικητικές ενώσεις] Absorbed through skin , Skin sensitiser , Inhalation sensitiser. STEL 15 minutes: 20 µg/m ³ (counted as NCO). TWA 8 hours: 10 µg/m ³ (counted as NCO).
 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 11/2025) Sensitiser. STEL 15 minutes: 0.0056 ppm. STEL 15 minutes: 0.052 mg/m ³ . TWA 8 hours: 0.0028 ppm. TWA 8 hours: 0.026 mg/m ³ .
 Organic dust	Working Environment Authority (Denmark) TWA 8 hours: 3 mg/m ³ .
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Working Environment Authority (Denmark, 11/2025) TWA 8 hours: 0.005 ppm. TWA 8 hours: 0.045 mg/m ³ . STEL 15 minutes: 0.09 mg/m ³ . STEL 15 minutes: 0.01 ppm.
 Organic dust	Occupational exposure limits, Regulation No. 293 (Estonia) TWA 8 hours: 5 mg/m ³ .
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Occupational exposure limits, Regulation No. 293 (Estonia, 1/2026) Sensitiser. TWA 8 hours: 0.05 mg/m ³ . TWA 8 hours: 0.005 ppm. STEL 5 minutes: 0.01 ppm. STEL 5 minutes: 0.09 mg/m ³ .

SECTION 8: Exposure controls/personal protection

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Organic dust

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

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3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

EU OEL (Europe, 3/2024) [diisocyanates] Absorbed through skin , Skin sensitiser , Inhalation sensitiser.
STEL 15 minutes: 20 µg/m³ (as isocyanates functional groups of the diisocyanate compounds.).
TWA 8 hours: 10 µg/m³ (as isocyanates functional groups of the diisocyanate compounds.).

Institute of Occupational Health, Ministry of Social Affairs (Finland)

TWA 8 hours: 5 mg/m³.
STEL 15 minutes: 10 mg/m³.

Institute of Occupational Health, Ministry of Social Affairs (Finland, 3/2026) [Isosyanaatit]

STEL 15 minutes: 0.035 mg/m³ (calculated as NCO).

Institute of Occupational Health, Ministry of Social Affairs (Finland, 3/2026) [di-isosyanaatit] Absorbed through skin , Skin sensitiser , Inhalation sensitiser.

STEL 15 minutes: 0.02 mg/m³ (calculated as NCO).
TWA 8 hours: 0.01 mg/m³ (calculated as NCO).

Ministry of Labor (France, 1/2026) Inhalation sensitiser.

TWA 8 hours: 0.01 ppm. Notes: Permissible limit values (circulars)

TWA 8 hours: 0.09 mg/m³. Notes: Permissible limit values (circulars)

STEL 5 minutes: 0.02 ppm. Notes: Permissible limit values (circulars)

STEL 5 minutes: 0.18 mg/m³. Notes: Permissible limit values (circulars)

DFG MAC-values list (Germany)

TWA 8 hours: 5 mg/m³.

TRGS 900 OEL (Germany, 12/2025) [Diisocyanate] Inhalation sensitiser , Skin sensitiser.

PEAK 15 minutes: 0.02 mg/m³ (measured as NCO).

TWA 8 hours: 0.01 mg/m³ (measured as NCO).

DFG MAC-values list (Germany, 7/2025) Develop D. Inhalation sensitiser , Skin sensitiser.

TWA 8 hours: 0.005 ppm.

CEIL: 0.01 ml/m³.

TWA 8 hours: 0.046 mg/m³.

CEIL: 0.092 mg/m³.

PEAK 15 minutes: 0.005 ppm 4 times per shift [Interval: 1 hour].

PEAK 15 minutes: 0.046 mg/m³ 4 times per shift [Interval: 1 hour].

Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) Absorbed through skin.

TWA 8 hours: 0.01 ppm.

TWA 8 hours: 0.09 mg/m³.

STEL 15 minutes: 0.02 ppm.

STEL 15 minutes: 0.18 mg/m³.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2025) [DIIZOCIANÁTOK] Sensitiser.

Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)

Absorbed through skin , Sensitiser. Notes: The same exposure limits in ppm are to be used for those isocyanates which have no exposure limits of their own. This also applies to dust or mist from isocyanates, including when it comes from semi-polymerised isocyanates or blocked isocyanates. However, the corresponding value in mg/m³ varies from substance to substance.

STEL 5 minutes: 0.09 mg/m³.

STEL 5 minutes: 0.01 ppm.

TWA 8 hours: 0.05 mg/m³.

TWA 8 hours: 0.005 ppm.

SECTION 8: Exposure controls/personal protection

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	NAOSH (Ireland, 4/2024) Sensitiser. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.005 ppm (as NCO).
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	EU OEL (Europe, 3/2024) [diisocyanates] Absorbed through skin , Skin sensitiser , Inhalation sensitiser. STEL 15 minutes: 20 µg/m³ (as isocyanates functional groups of the diisocyanate compounds.). TWA 8 hours: 10 µg/m³ (as isocyanates functional groups of the diisocyanate compounds.).
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Ministers Cabinet Regulations Nr.325 (2007) - AER (Latvia, 3/2026) [diizocianāti] Absorbed through skin , Skin sensitiser , Inhalation sensitiser. STEL 15 minutes: 0.02 mg/m³ (measured as NCO). TWA 8 hours: 0.01 mg/m³ (measured as NCO).
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Lithuanian Hygiene Standard HN 23 (Lithuania, 10/2025) [izocianatai] Sensitiser. TWA 8 hours: 0.005 ppm. CEIL: 0.01 ppm.
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	EU OEL (Europe, 3/2024) [diisocyanates] Absorbed through skin , Skin sensitiser , Inhalation sensitiser. STEL 15 minutes: 20 µg/m³ (as isocyanates functional groups of the diisocyanate compounds.). TWA 8 hours: 10 µg/m³ (as isocyanates functional groups of the diisocyanate compounds.).
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	EU OEL (Europe, 3/2024) [diisocyanates] Absorbed through skin , Skin sensitiser , Inhalation sensitiser. STEL 15 minutes: 20 µg/m³ (as isocyanates functional groups of the diisocyanate compounds.). TWA 8 hours: 10 µg/m³ (as isocyanates functional groups of the diisocyanate compounds.).
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 3/2026) [diisocyanaten] Absorbed through skin , Skin sensitiser , Inhalation sensitiser. STEL 15 minutes: 0.02 mg/m³ (as isocyanate). TWA 8 hours: 0.01 ppm (as isocyanate).
Organic dust	FOR-2011-12-06-1358 (Norway) TWA 8 hours: 5 mg/m³.
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	FOR-2011-12-06-1358 (Norway, 12/2025) Sensitiser. Notes: Chemicals to be treated as provoking allergic reactions or other hypersensitivity in the eyes or respiratory organs, or to be treated as provoking allergic reactions in contact with skin. TWA 8 hours: 0.005 ppm. TWA 8 hours: 0.045 mg/m³. STEL 15 minutes: 0.01 ppm.
Organic dust	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland) TWA 8 hours: 10 mg/m³.
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 4/2026) [diizocyjaniany] Absorbed through skin , Skin sensitiser , Inhalation sensitiser. TWA 8 hours: 0.01 mg/m³ (calculated as NCO groups). STEL 15 minutes: 0.02 mg/m³ (calculated as NCO groups).
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Portuguese Institute of Quality (Portugal, 11/2014) TWA 8 hours: 0.005 ppm.

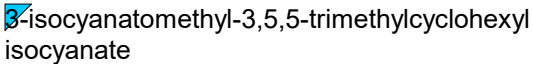
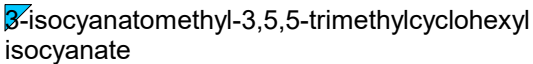
SECTION 8: Exposure controls/personal protection

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 2/2026) [diizocianati] R1B. Absorbed through skin , Skin sensitiser , Inhalation sensitiser. Short term 15 minutes: 0.02 mg/m ³ (as isocyanate). VLA 8 hours: 0.01 mg/m ³ (as isocyanate).
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	EU OEL (Europe, 3/2024) [diisocyanates] Absorbed through skin , Skin sensitiser , Inhalation sensitiser. STEL 15 minutes: 20 µg/m ³ (as isocyanates functional groups of the diisocyanate compounds.). TWA 8 hours: 10 µg/m ³ (as isocyanates functional groups of the diisocyanate compounds.).
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2025) [diizocianati] Absorbed through skin , Inhalation sensitiser , Skin sensitiser. KTV 15 minutes: 0.02 mg/m ³ (calculated as NCO - (NCO refers to isocyanate functional groups of diisocyanate compounds)), 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. TWA 8 hours: 0.01 mg/m ³ (calculated as NCO - (NCO refers to isocyanate functional groups of diisocyanate compounds)).
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	National institute of occupational safety and health (Spain, 2/2026) Inhalation sensitiser , Skin sensitiser. TWA 8 hours: 0.005 ppm. TWA 8 hours: 0.046 mg/m ³ .
Organic dust	Work environment authority Regulation 2023:14 (Sweden) TWA 8 hours: 5 mg/m ³ .
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Work environment authority Regulation 2023:14 (Sweden, 6/2025) [diisocyanates and other multifunctional isocyanates] Absorbed through skin , Skin sensitiser , Inhalation sensitiser. STEL 15 minutes: 0.012 mg/m ³ . TWA 8 hours: 0.006 mg/m ³ .
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	SUVA (Switzerland, 1/2026) [Isocyanate] Sensitiser. TWA 8 hours: 0.02 mg/m ³ (calculated as NCO). STEL 15 minutes: 0.02 mg/m ³ (calculated as NCO).
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	EH40/2005 WELs (United Kingdom (UK), 1/2020) [isocyanates, all, except methyl isocyanate] Inhalation sensitiser. STEL 15 minutes: 0.07 mg/m ³ (as -NCO). TWA 8 hours: 0.02 mg/m ³ (as -NCO).

Biological exposure indices

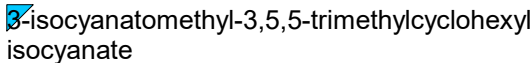
Product/ingredient name	Exposure indices
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	VGU BEI (Austria, 9/2020) [Isocyanate] BEI Fitness: 10 µg/g Kreatinin, 4,4'-diaminodiphenylmethane [in urine]. Sampling time: one year.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	

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No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
	NAOSH BGVs (Ireland, 1/2011) [Isocyanates] BMGV: 1 µmol/mol creatinine, diamine [in urine]. Sampling time: post task.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
	SUVA (Switzerland, 1/2026) [Isocyanate] BEI: 1 µmol/mol creatinine, diamine derived from diisocyanate [in urine]. Sampling time: immediately after exposure or after working hours.
No exposure indices known.	

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following:
European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Result
	DNEL - Workers - Short term - Inhalation 0.045 mg/m ³ <u>Effects</u> : Local
	DNEL - Workers - Long term - Inhalation 0.045 mg/m ³ <u>Effects</u> : Local

PNECs

Not available.

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

SECTION 8: Exposure controls/personal protection

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. Contaminated work clothing should not be allowed out of the workplace. 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: safety glasses with side-shields.
- Skin protection**
- Hand 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.
- Recommendations : Wear gloves according to EN374 to protect against skin effects from powders.
- > 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm
- 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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Filter type: P 2
- 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** : Solid.
- Colour** : Various
- Odour** : Slight
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** :

Ingredient name	°C	°F	Method
Barium sulphate	1599.85	2911.7	

- Flammability** : Not available.
- Lower and upper explosion limit** : Lower: Not applicable.
Upper: Not applicable.

SECTION 9: Physical and chemical properties

Flash point : Closed cup: >100°C (>212°F)
Auto-ignition temperature : Not applicable.
Decomposition temperature : Not available.
pH : Not applicable.
Viscosity : Not available.
Solubility(ies) :
Not available.

Solubility in water : Not available.
Partition coefficient: n-octanol/ water : Not applicable.
Vapour pressure : Not available.
Relative density : Not available.
Density : 1.2 g/cm³
Vapour density : Not applicable.
Particle characteristics
Median particle size : 40 µm

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.
Oxidising properties : Not available.

9.2.2 Other safety characteristics

Not applicable.

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.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Result

Rat - Oral - LD50
4825 mg/kg

Rat - Inhalation - LC50 Dusts and mists
123 mg/m³ [4 hours]

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4825	N/A	N/A	N/A	0.03

Skin corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

SECTION 11: Toxicological information

Aspiration hazard

Not available.

Information on likely routes of exposure

Not available.

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : ☒ May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.
- 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

Not available.

- Conclusion/Summary [Product]** : Not available.
- General** : ☒ Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- 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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

- Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Not available.

- Conclusion/Summary [Product]** : Not available.

12.2 Persistence and degradability

Not available.

- Conclusion/Summary [Product]** : Not available.

SECTION 12: Ecological information

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	0.99	-	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	Value
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	logKoc: 2.1 Koc: 124.088

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	No	No	No	No	No	No	No

Mobility : Not available.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	No	N/A	N/A	No	N/A	N/A	N/A

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	No	No	No	No	No	No	No

Conclusion/Summary : The product does not meet the criteria to be considered as a PBT or vPvB.

Regulation (EC) No. 1272/2008 [CLP]

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal :  Dispose of contents and container in accordance with all local, regional, national and international regulations. Avoid release to the environment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste :  The classification of the product may meet the criteria for a hazardous waste.

SECTION 13: Disposal considerations

European waste catalogue (EWC) : 080201

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill 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 or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
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 Maritime transport in bulk according to IMO instruments : Not relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (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.

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

Product/ingredient name	%	Designation [Usage]
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	<0.1	74

Labelling :

Synthetic polymer microparticles - Designation 78

Generic identity of polymer(s) : 3907 - Polyacetals, other polyethers and epoxide resins; polycarbonates, alkyd resins, polyallyl esters and other polyesters.

SECTION 15: Regulatory information

Total percentage of synthetic polymer microparticles : 81.3%

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

Other EU regulations

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

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

Explosive precursors (EC) No 273/2004 on drug precursors : Not applicable.

Not listed.

(EC) No 111/2005 Trade between the Union and third countries in drug precursors

Not listed.

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Austria

Limitation of the use of organic solvents : Permitted.

Belgium

Czech Republic

Storage code : IV

Denmark

Fire class : IV-1

MAL-code : 1-1

Protection based on MAL : **According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:**

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

SECTION 15: Regulatory information

MAL-code: 1-1

Application: During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

- Gas filter mask must be worn.

When spraying in existing* spray booths, if the operator is outside the spray zone.

- Full mask with combined filter and arm protectors must be worn.

During non-atomising spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone.

- Air-supplied half mask and eye protection must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied half mask, eye protection, coveralls and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

Restrictions on use : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

List of undesirable substances : Not listed

Finland

France

Social Security Code, Articles L 461-1 to L 461-7 : 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate RG 62

Reinforced medical surveillance : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

Germany

Storage class (TRGS 510) : 13

Hazardous incident ordinance

This product is not controlled under the Germany Hazardous Incident Ordinance.

Hazard class for water : 1

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5.2.1	Total dust	97
5.2.5	Organic substances	3
5.2.5 [I]	Organic substances	0.011

Italy

D.Lgs. 152/06 : Not determined.

Netherlands

SECTION 15: Regulatory information

Water Discharge Policy (ABM) : A(4) Low hazard for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A

[Norway](#)

[Sweden](#)

[Switzerland](#)

VOC content : Exempt.

[International regulations](#)

[Chemical Weapon Convention List Schedules I, II & III Chemicals](#)

Not listed.

[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 : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = 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 according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

Classification	Justification
Skin Sens. 1, H317	Calculation method

[Full text of abbreviated H statements](#)

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H411	Toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

[Full text of classifications \[CLP/GHS\]](#)

SECTION 16: Other information

Acute Tox. 1	ACUTE TOXICITY - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A

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All variants

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

