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

1.1. Product identifier

Product name: Optimax® 8085 Part B
Product code: Optimax® 8085-B
UFI: M0DA-Q7D2-CAA7-T1T6
Product form: Mixture

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

Use of substance / mixture: Adhesive
1.2.1 Relevant Identified uses: Adhesive

1.2.2 Uses advised against: For professional use only

1.3. Details of the supplier of the safety data sheet

Company Name:
Novachem Corporation Ltd
U4 Dunboyne Industrial Estate
Dunboyne
Co. Meath
Ireland
International Tel: 00353-1-8026554
technicalsupport@novachem.ie
UK: 0044 (0) 2081442098
technicalsupport@novachem-uk.co.uk

1.4 Emergency telephone number

Emergency telephone: Novachem Corporation Ltd: 00353-1-8026554 (Mon-Fri 08.00-17.00hrs).
National Poisons Centre, Beaumont Hospital, Beaumont, Dublin 9. Ireland. Enquiries Tel: 00353-1-809-2166. 8am-10pm 7 days a week. The National Poisons Information Centre is open 24hr for healthcare professionals treating poisoned patients. Tel: 00353-1-809-2566.

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: This product requires a safety datasheet that complies with the provision of (EU) Regulation 2015/30. Any additional information concerning the risks for health and/or environment are given in Sections 11 and 12.

Hazard classification: Specific target organ toxicity - repeated exposure, category 2 H373. May cause damage to organs through prolonged or repeated exposure. Eye irritation, category 2 H319. Causes serious eye irritation. Skin irritation, category 2. H315 Causes skin irritation. Specific target organ toxicity -

	single exposure, category 3 H335. May cause respiratory irritation. Respiratory sensitization, category 1. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitization, category 1A H317. May cause an allergic skin reaction. Carcinogenicity, category 2. H351 Suspected of causing cancer. Eye irritation, category 2. Causes serious eye irritation.
Most important adverse effects:	

2.2. Label elements

Label elements under CLP:

Hazard statements:	EUH204 Contains isocyanates. May produce an allergic reaction. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. H319 Causes serious eye irritation. H315 Causes skin irritation. H335 May cause respiratory irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction.
Signal words:	Warning
Hazard pictograms:	
Precautionary statements:	P201 Obtain special instructions before use. P284 [In case of inadequate ventilation] wear respiratory protection. P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing. P308+P313 IF exposed or concerned: Get medical advice / attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P280 Wear protective gloves/ protective clothing / eye protection / face protection. Contains: 4,4'-Methylenediphenyl diisocyanate, oligomers As from 24 August 2023 adequate training is required before industrial or professional use.

2.3. Other hazards

Component	Based on the data available the product does not contain any PBT or vPvB in percentage ≥ than 0.1%.

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2. Substances/Preparation:

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Name	Product Identifier	%	Classification
4,4'-Methylenediphenyl diisocyanate, oligomers	CAS-No.: 25686-28-6 EC: 500-040-3	50 ≤ x < 100	Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1A H317

Section 4: First aid measures

4.1. Description of first aid measure

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. If irritation persists, obtain medical attention.

Eye contact: Remove contact lenses if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

Ingestion: Get medical advice/attention. Induce vomiting only if indicated by a doctor.

Inhalation: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately

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

Skin contact: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. It can irritate the respiratory tract. Suspected of causing cancer. May cause damage to organs through prolonged exposure or repeated.

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide, foam, powder and water spray.

Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Do not breathe combustion products.

5.3. Advice for fire-fighters

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Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to Section 8 of SDS for personal protection details. Evacuate the area immediately. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

6.4. Reference to other sections

Reference to other sections: Refer to Section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well-ventilated area. Keep container tightly closed.
Suitable packaging: Product should be kept in the original container.

7.3. Specific end use(s)

Specific end use(s): Adhesive

Section 8: Exposure controls/personal protection

8.1. Control parameters

4,4'-Methylenediphenyl diisocyanate, oligomers
Threshold Limit Value

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TWA/8h
STEL/15min
TLV-ACGIH 0.005ppm
Predicted no-effect concentration – PNEC
Normal value in fresh water 1 mg/l
Normal value in marine water 0,1 mg/l
Normal value of STP microorganisms 1 mg/l
Normal value for the terrestrial compartment 1 mg/kg

Derived no-effect level - DNEL / DMEL

Effect on consumer	Acute local	Acute systemic	Chronic local	Chronic systemic
Routes of exposure				
Oral	VND 20 mg/kg bw/d	20mg/kg bw/d		
Inhalation	0,05 mg/m3	VND	0,025 mg/m3	0,025 mg/m3
Skin	17,2 mg/cm2	2 25 mg/kg bw/d		
Effects on workers	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				
Inhalation	0,025 mg/m3	0,1 mg/m3	0,1 mg/m3	0,05 mg/m3
Skin	28,7 mg/cm2	50 mg/kg bw/d		

C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

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	For prolonged contact, use nitrile or neoprene gloves category III (EN374).
Hand protection:	Gloves rated to – EN374.
Eye protection:	Safety glasses – standard EN 166. Ensure eye bath is to hand.
Skin protection:	Protective clothing should be available.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Off-yellow/Straw Yellow
Appearance	Off-yellow/Straw Yellow
Odour	Characteristic
Odour threshold	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	> 300°C
Flammability	Not flammable
Explosive properties	Product is not explosive
Oxidising properties	Not oxidising
Explosive limits	Not available
Lower explosive limit (LEL)	Not available
Upper explosive limit (UEL)	Not available
Flash point	> 205 °C
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	Not available
Solubility	Not available
Partition coefficient n-octanol/water (Log Kow)	Not available
Partition coefficient n-octanol/water (Log Pow)	Not available
Vapour pressure	0, 1 Pa
Vapour pressure at 50 °C	Not available
Density	Not available
Relative density	1,1-1.2 g/cm3
Relative vapour density at 20 °C	Not available
Viscosity	<2000 mPas

9.2. Other information

9.2.1. Physical hazard classes	No data available
9.2.2. Other safety characteristics	No data available.

Section 10: Stability and reactivity

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10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: No special conditions required.

10.5. Incompatible materials

Materials to avoid: No data available.

10.6. Hazardous decomposition products

Haz. decomp. products: No data available.

11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Information on likely routes of exposure:	Information not available.
Delayed and immediate effects as well as chronic effects from short and long-term exposure:	Information not available.
Metabolism, toxicokinetics, mechanism of action and other information	Information not available
ACUTE TOXICITY	ATE (Inhalation) of the mixture: > 20 mg/l

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	ATE (Oral) of the mixture: Not classified (no significant component) ATE (Dermal) of the mixture: Not classified (no significant component) 4,4'-Methylenediphenyl diisocyanate, oligomers LD50 (Oral) > 5000 mg/kg LD50 (Dermal) > 9400 mg/kg LC50 (Inhalation) 0,49 mg/l/4h
SKIN CORROSION / IRRITATION	Causes skin irritation
SERIOUS EYE DAMAGE / IRRITATION	Causes serious eye irritation Sensitising for the respiratory system
RESPIRATORY OR SKIN SENSITISATION	Sensitising for the skin
GERM CELL MUTAGENICITY	Does not meet the classification criteria for this hazard class
CARCINOGENICITY	Suspected of causing cancer
REPRODUCTIVE TOXICITY	Does not meet the classification criteria for this hazard class
STOT - SINGLE EXPOSURE	May cause respiratory irritation
ASPIRATION HAZARD	Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

No data available

Section 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute): No data available

Hazardous to the aquatic environment, long-term (chronic): No data available

12.2. Persistence and degradability

Persistence and degradability: No data available

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available

12.4. Mobility in soil

Mobility: No data available

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12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Other adverse effects: No other effects known

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose of as Special Waste in accordance with local and national legislation. Hardened product can be disposed of in land-fill sites by licensed contractors.

Waste code number: 08 04 09

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1 UN number or ID number:

UN Number:

ADR	IMDG	IATA	ADN	RID
NA	NA	NA	NA	NA

14.2 UN proper shipping name:

ADR	IMDG	IATA	ADN	RID
NA	NA	NA	NA	NA

14.3 Transport hazard class:

Transport Hazard Class:

ADR	IMDG	IATA	ADN	RID
NA	NA	NA	NA	NA

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14.4 Packing Group:

Packing Group:

ADR	IMDG	IATA	ADN	RID
NA	NA	NA	NA	NA

14.5 Environmental hazards:

ADR	IMDG	IATA	ADN	RID
NA	NA	NA	NA	NA

14.6 Special precautions for users:

Overland transport	
Classification code (ADR)	NA
Transport by sea	NA
Air transport	NA
Rail transport	NA

Section 14.7: Maritime transport in bulk according to IMO instruments

NA

Section 15: Regulatory information

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

15.1.1 EU Regulations

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 – None.

Product Point 3
Contained substance
Point 56
4,4'-Methylenediphenyl diisocyanate, oligomers Reg. no.: 01-2119457013-49
Point 74
DIISOCYANATES
Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.
Substances subject to authorisation (Annex XIV REACH)
None
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:
None
Substances subject to the Rotterdam Convention:
None

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Substances subject to the Stockholm Convention:
None
Healthcare controls
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.1.2 National Regulations

No information available.

15.2. Chemical Safety Assessment

Chemical safety assessment: No chemical safety assessment has been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information:
Indication of changes: Indicated by revision number.
Phrases used in S.2 and 3: EUH204 Contains isocyanates. May produce an allergic reaction. Carc. 2 Carcinogenicity, category 2 Acute Tox. 4 Acute toxicity, category 4 STOT RE 2 Specific target organ toxicity - repeated exposure, category 2 Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2 STOT SE 3 Specific target organ toxicity - single exposure, category 3 Resp. Sens. 1 Respiratory sensitization, category 1 Skin Sens. 1A Skin sensitization, category 1A H351 Suspected of causing cancer. H332 Harmful if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. H319 Causes serious eye irritation. H315 Causes skin irritation. H335 May cause respiratory irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Novachem Corporation Ltd. and/or its agents cannot accept any liability for the use of information contained in this data sheet or for the use, application or processing of the product described in this data sheet. Users should note the possibility of hazards occurring due to improper uses of the product.

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