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Safety Data Sheet acc. to OSHA HCS

Printing Date 06/03/2021	Revision Number 3	Revision Date 05/26/2020
1 Identification		
· Product identifier		
	thane High Shear Strength D85 Part A (04 bstance or mixture. Industrial Use Only. mixture Adhesive	<u>4023)</u>
• Details of the supplier of the safet • Manufacturer/Supplier: Royal Adhesives & Sealants 800 E. Anaheim Street Wilmington. CA 90744 (310) 830-9904	ty data sheet	
• Information department: Global A • Emergency telephone number: ChemTrec: Day or Night within U Outside USA and Canada: +1 703		
2 Hazard(s) identification		
• Classification of the substance or	mixture	
GHS08 Health hazard		
Resp. Sens. 1 H334 May cause al	lergy or asthma symptoms or breathing difj	ficulties if inhaled.
Carc. 2 H351 Suspected of G	causing cancer.	
STOT RE 2 H373 May cause da	mage to organs through prolonged or repe	eated exposure.
GHS07		
Acute Tox. 4 H332 Harmful if inl	haled.	
Skin Irrit. 2 H315 Causes skin i		
Eye Irrit. 2A H319 Causes seriou	is eye irritation.	
Skin Sens. 1 H317 May cause an	allergic skin reaction.	
STOT SE 3 H335 May cause real	spiratory irritation.	
• Label elements • GHS label elements The product i • Hazard pictograms	is classified and labeled according to the G	clobally Harmonized System (GHS).
GHS07 GHS08		
· Signal word Danger		
· Hazard statements		
Harmful if inhaled.		(Contd. on page 2)
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Causes skin irritation.	
Causes serious eye irritation.	
May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
May cause an allergic skin reaction.	
Suspected of causing cancer.	
May cause respiratory irritation.	
May cause damage to organs through prolonged or repeated exposure.	
· Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Contaminated work clothing must not be allowed out of the workplace.	
Wear protective gloves/protective clothing/eye protection/face protection.	
[In case of inadequate ventilation] wear respiratory protection.	
If on skin: Wash with plenty of water.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if presen	t and easy to do.
Continue rinsing.	
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Specific treatment (see on this label).	
Get medical advice/attention if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation or rash occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
If experiencing respiratory symptoms: Call a poison center/doctor.	
Wash contaminated clothing before reuse.	
Store in a well-ventilated place. Keep container tightly closed.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regi	ulations.
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 1	
2 1 Reactivity = 1	
· HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 1 Fire = 1	
PHYSICAL HAZARD Physical Hazard = 1	
$\frac{PHYSICALHAZARDI}{I}IHySICulIIuzulu=I$	
· Other hazards	
· Results of PBT and vPvB assessment	
• PBT: Not applicable.	
• vPvB : Not applicable.	
3 Composition/information on ingredients	
· Chemical characterization · Mixtures	

 \cdot Chemical characterization: Mixtures

· **Description:** Mixture

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25-50%

· Hazardous components:

101-68-8 4,4'-methylenediphenyl diisocyanate (MDI)

4 First-aid measures

· Description of first aid measures

• After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Seek medical treatment.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available. • Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray.
- Use fire fighting measures that suit the environment.
- · Advice for firefighters

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

· Protective equipment:

Protective clothing and respiratory protective device.

Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Use neutralizing agent.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste in accordance with federal state and local regulations.

• Reference to other sections

Neutralization solutions:

A mixture of 90% water. 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.
A mixture of 80% water, 20% non-ionic surfactant.

Apply solution. Wait 15 minutes. Collect in open-head container. Re-apply until surface is decontaminated. Apply drum lid but DO NOT secure. Let containers vent for 72 hours allowing carbon dioxide to escape. Secure drum lid.

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7 Handling and storage

· Handling:

- · Precautions for safe handling
- Avoid contact with skin and eyes.

Open and handle receptacle with care.

- Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires:
- Product reacts with water. Reaction may produce heat and/or gases.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Protect from moisture. Keep packages dry.
- Information about storage in one common storage facility: Store away from oxidizing agents.
- Keep away from open flames and high temperatures.
- Further information about storage conditions:
- *Keep receptacle tightly sealed. Protect from humidity and water. Store in dry conditions.*
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

101-68-8 4,4'-methylenediphenyl diisocyanate (MDI)

PEL Ceiling limit value: 0.2 mg/m³, 0.02 ppm

- REL Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit value: 0.2* mg/m³, 0.02* ppm *10-min
- TLV Long-term value: 0.051 mg/m³, 0.005 ppm

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment (see listings below)
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- Breathing equipment:
- In the absence of adequate ventilation, use NIOSH-certified respiratory protection when chemical exposure is excessive or above an established exposure limit. Comply with OSHA 29 CFR 1910.134.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

• *Material of gloves* Chloroprene rubber, CR Nitrile rubber, NBR

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Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Safety glasses with side shields.

· Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and c	chemical properties	
· General Information		
· Appearance:		
Form:	Liquid	
Color:	Light yellow	
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not applicable.	
· Change in condition		
Melting point:	Undetermined.	
Boiling point:	Undetermined	
· Flash point:	212 °C (413.6 °F)	
· Flammability (solid, gaseous):	Not determined.	
· Ignition temperature:	520 °C (968 °F)	
· Decomposition temperature:	Not determined.	
• Auto igniting:	Product is not selfigniting.	
• Danger of explosion:	Product does not present an explosion hazard.	
· Flammable limits:		
Lower:	0.4 Vol %	
Upper:	Not determined	
· Vapor pressure:	Not applicable.	
· Specific gravity at 20 °C (68 °F):	1.11 g/cm ³ (9.26295 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
• Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Not determined.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
VOC (Per EPA 24)	42.22 GMS/L	

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Solids content:

Not Available.

· Other information

No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: Moisture
- · Possibility of hazardous reactions
- Contact with moisture, other materials that react with isocyanates, or temperatures above 350F, may cause polymerization.
- · Conditions to avoid Avoid high temperatures. Avoid freezing.
- Incompatible materials:

Reacts with amines. Reacts with alcohols.

Reacts with alkali (lyes).

Reacts with water.

Copper and copper alloys.

May produce violent reactions with bases and numerous organic substances including alcohols and amines.

- · Hazardous decomposition products:
- Carbon monoxide Carbon dioxide Isocyanate
- Isocyanic acid

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

101-68-8 4,4'-methylenediphenyl diisocyanate (MDI)

Oral LD50 2,200 mg/kg (mouse)

- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization:

Inhalation - Sensitization possible through inhalation.

- Skin Contact Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

101-68-8 4,4'-methylenediphenyl diisocyanate (MDI)

· NTP (National Toxicology Program)

None of the ingredients is listed.

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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes: At present there are no ecotoxicological assessments.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation: Must be specially treated adhering to official regulations.
- · Uncleaned packagings:

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· Recommendation: Disposal must be made according to official regulations.

UN-Number DOT, ADN, IMDG, IATA	not regulated	
	noi regulatea	
UN proper shipping name DOT, ADN, IMDG, IATA	not regulated	
Transport hazard class(es)		
DOT, ADN		
Class	not regulated	
IMDG, IATA		
· Class	not regulated	
	Not Regulated	
Packing group		
DOT, IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	

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· UN ''Model Regulation'':

not regulated

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

101-68-8 4,4'-methylenediphenyl diisocyanate (MDI)

· TSCA (Toxic Substances Control Act):

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

• Hazardous Air Pollutants

101-68-8 4,4'-methylenediphenyl diisocyanate (MDI)

· Proposition 65

Please contact H.B. Fuller for more information regarding Proposition 65 on this product: reg.request@hbfuller.com.

· (DSL) Canada Dosmestic Substance List

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

101-68-8 4,4'-methylenediphenyl diisocyanate (MDI)

· TLV (Threshold Limit Value)

None of the ingredients listed.

· MAK (German Maximum Workplace Concentration)

101-68-8 4,4'-methylenediphenyl diisocyanate (MDI)

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· National regulations:

- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

- · Department issuing SDS: Global Regulatory Department.
- · Creation Date: 05/26/2020
- · Contact:
- · Date of preparation / last revision 06/03/2021 / 2

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Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (R	Regulations Concerning the
International Transport of Dangerous Goods by Rail)	
ATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)	
ICAO: International Civil Aviation Organisation	
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
Resp. Sens. 1: Respiratory sensitisation – Category 1	
Skin Sens. 1: Skin sensitisation – Category 1	
Carc. 2: Carcinogenicity – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	