SAFETY DATA SHEET

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

1.1. Product identifier	
Trade name or designation of the mixture	Repair Compound Hardener
Registration number	-
Product registration number	UFI: TD05-41TE-600Q-5Q9K
Synonyms	None.
SKU#	DM004H
Issue date	04-August-2023
Version number	02
Revision date	30-August-2024
Supersedes date	04-August-2023
1.2. Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	Not available.
Uses advised against	None known.
1.3. Details of the supplier of the	e safety data sheet
Company name	ITW Performance Polymers
Address	Bay 150
	Shannon Industrial Estate
	Co. Clare
	Ireland
	V14 DF82
Contact person	
Telephone number	353(61)771500
Eners 1	353(61)471285
Email	customerservice.shannon@itwpp.com
Emergency phone number	44(0) 1235 239 670 (24 hours)
1.4. Emergency telephone numb General emergency	ber 112 or 999 SDS/Product information may not be available for the Emergency Service.
Non-emergency medical helpline	111 SDS/Product information may not be available for the Emergency Service.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Acute toxicity, dermal	Category 4	H312 - Harmful in contact with skin.
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.

2.2. Label elements

Contains:

Label according to Regulation (EC) No. 1272/2008 as amended

Talc, Amidoamine, 3,6,9-triazaundecamethylenediamine; tetraethylenepentamine, Silicon dioxide, 3,6-diazaoctanethylenediamin; triethylenetetramine, 2,2'-iminodiethylamine; diethylenetriamine, phenol; carbolic acid; monohydroxybenzene; phenylalcohol

Hazard pictograms



Signal word	Warning
Hazard statements	
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
Precautionary statements	
Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear eye protection/face protection.
P280	Wear protective gloves/protective clothing.
Response	
P301 + P312	IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P330	Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
Storage	Not available.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental label information	93.79356 % of the mixture consists of component(s) of unknown acute oral toxicity. 97.88526 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 96.09756 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.
2.3. Other hazards	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Talc	30 - 60	14807-96-6 238-877-9	-	-	#
Classification:	Carc. 2;H3	351			
Amidoamine	10 - 30	68953-36-6 273-201-6	-	-	
Classification:	-				
3,6,9-triazaundecamethylenediamine; tetraethylenepentamine	1 - 5	112-57-2 203-986-2	-	612-060-00-0	
Classification:		. 4;H302, Acute Tox. kin Sens. 1;H317, Aq	4;H312, Skin Corr. 1B;H314 uatic Chronic 2;H411	, Eye Dam.	
Silicon dioxide	1 - 5	112945-52-5 231-545-4	-	-	
Classification:	-				
olacomoutom	0.1 - 1	112-24-3	-	612-059-00-5	
3,6-diazaoctanethylenediamin; triethylenetetramine		203-950-6			

Chemical name	%	CAS-No. / EC No.	REACH Registration No	. Index No.	Notes
2,2'-iminodiethylamine; diethylenetriamine	< 1	111-40-0 203-865-4	-	612-058-00-X	#
Classif		. 4;H302, Acute Tox. kin Sens. 1;H317	4;H312, Skin Corr. 1B;H31	4, Eye Dam.	
phenol; carbolic acid; monohydroxybenzene; phenyl	< 1 alcohol	108-95-2 203-632-7	-	604-001-00-2	#
Classif		Eye Dam. 1;H318, M	3;H311, Acute Tox. 3;H33 uta. 2;H341, STOT RE 2;H		
Specific Concentration		1B;H314: C ≥ 3 %, S ≥ 3 %, Eye Irrit. 2;H3	Skin Irrit. 2;H315: 1 % ≤ C < 319: 1 % ≤ C < 3 %	: 3 %, Eye Dam.	
Other components below repo levels	rtable 10 - 30				
List of abbreviations and symbo ATE: Acute toxicity estimate. M: M-factor vPvB: very persistent and very PBT: persistent, bioaccumulat #: This substance has been as All concentrations are in perce	v bioaccumulative s ive and toxic substa	ubstance. ance. place exposure limiti			
Composition comments		•	blayed in section 16.	percent by volume.	
SECTION 4: First aid meas			,		
General information	Ensure that media	s. Show this safety o	are of the material(s) involv lata sheet to the doctor in a		
4.1. Description of first aid meas	-				
Inhalation			mptoms develop or persist		
Skin contact	advice/attention if	you feel unwell. In c	liately and wash skin with s ase of eczema or other ski ions. Wash contaminated o	n disorders: Seek m	edical
Eye contact	present and easy	to do. Continue rinsi	vater for at least 15 minute ng. Get medical attention if	irritation develops a	and persists.
Ingestion	Get medical advic	e/attention if you fee		-	-
4.2. Most important symptoms and effects, both acute and delayed			nclude stinging, tearing, re ess and pain. May cause ar		
4.3. Indication of any immediate medical attention and special treatment needed		upportive measures n. Symptoms may be	and treat symptomatically. delayed.	Keep victim warm.	Keep victim
SECTION 5: Firefighting n	neasures				
General fire hazards	No unusual fire or	explosion hazards r	noted.		
5.1. Extinguishing media Suitable extinguishing media	Water fog. Foam.	Dry chemical powde	r. Carbon dioxide (CO2).		
Illeula					
Unsuitable extinguishing media	Do not use water	jet as an extinguishe	r, as this will spread the fire	9.	
media 5.2. Special hazards arising		jet as an extinguishe hazardous to health		2 .	
	During fire, gases	hazardous to health			of fire.
media 5.2. Special hazards arising from the substance or mixture 5.3. Advice for firefighters Special protective	During fire, gases Self-contained bre	hazardous to health	may be formed. d full protective clothing m		of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protect	ctive equipment and emergency procedures
For non-emergency personnel	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.
For emergency responders	Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Following product recovery, flush area with water.
	Small Spills: Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.
SECTION 7: Handling and	storage

7.1. Precautions for safe handling	Do not taste or swallow. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Components	Туре		Value	Form
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA		4.3 mg/m3	
			1 ppm	
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL		16 mg/m3	
			4 ppm	
	TWA		7.8 mg/m3	
			2 ppm	
Talc (CAS 14807-96-6)	TWA		1 mg/m3	Respirable dust.
logical limit values	No biological exposure li	mits noted for the ingre	dient(s).	
commended monitoring ocedures	Follow standard monitor	ing procedures.		
rived no effect levels IELs)	Not available.			
dicted no effect ncentrations (PNECs)	Not available.			
oosure guidelines	Occupational Exposure I	Occupational Exposure Limits are not relevant to the current physical form of the product.		
UK EH40 WEL: Skin desig	nation			
2,2'-iminodiethylamine; (CAS 111-40-0)	diethylenetriamine	Can be absorbe	ed through the skin.	
phenol; carbolic acid; m phenylalcohol (CAS 10		Can be absorbe	ed through the skin.	
. Exposure controls				

Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.
Individual protection measures,	such as personal protective equipment
General information	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear safety glasses with side shields (or goggles). Face shield is recommended.
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves.
- Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physic	ai and chemical properties
Appearance	Paste.
Physical state	Solid.
Form	Solid. Paste.
Colour	Cream
Odour	Amine-like. Mild.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	>93.3 °C (>200.0 °F) Closed cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	0.24 hPa estimated
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	
Density	1.55 g/cm3
Specific gravity	1.55

SECTION 10: Stability and reactivity			
10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.		
10.2. Chemical stability	Material is stable under normal conditions.		
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.		
10.4. Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.		
10.5. Incompatible materials	Strong oxidising agents.		
10.6. Hazardous decomposition products	No hazardous decomposition products are known.		
SECTION 11: Toxicologic	al information		
General information	Occupational exposure to the substance or mixture may cause adverse effects.		
Information on likely routes of e	exposure		
Inhalation	No adverse effects due to inhalation are expected.		
Skin contact	Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.		
Eye contact	Causes serious eye irritation.		
Ingestion	Harmful if swallowed.		
Symptoms	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.		

11.1. Information on toxicological effects

toxicity	

Harmful in contact with skin. Harmful if swallowed.

Dermatitis. Rash.

Acute toxicity	Harmful in contact with skin. Harmful if swallowed.		
Components	Species	Test Results	
3,6-diazaoctanethylenediamin; tri	ethylenetetramine (CAS 112	-24-3)	
Acute			
Dermal			
Liquid			
LD50	Rat	1465 mg/kg	
Oral			
Liquid LD50	Rat		
		1716 mg/kg	
Silicon dioxide (CAS 112945-52-5))		
<u>Acute</u> Oral			
LD50	Rat	> 22500 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye	Causes skin initiation. Causes serious eye irritation.		
irritation	Causes serious eye irria	ион.	
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.		
Skin sensitisation	May cause an allergic skin reaction.		
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.		
Carcinogenicity	Risk of cancer cannot be excluded with prolonged exposure.		
IARC Monographs. Overall	Evaluation of Carcinogen	icity	
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)		3 Not classifiable as to carcinogenicity to humans.	
Silicon dioxide (CAS 112945-52-5)		3 Not classifiable as to carcinogenicity to humans.	
Talc (CAS 14807-96-6)		2B Possibly carcinogenic to humans.	
Denne ductive texicity	Due to partial or complete	3 Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity		Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible.	
Specific target organ toxicity - single exposure	Due to partial or complete	a lack of data the classification is not possible.	
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.		
Aspiration hazard	Due to partial or complete	e lack of data the classification is not possible.	
Mixture versus substance information	No information available.		

SECTION 12: Ecological information		
12.1. Toxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
12.2. Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.	
12.3. Bioaccumulative potential		
Partition coefficient n-octanol/water (log Kow) 3,6,9-triazaundecamethylened phenol; carbolic acid; monohy	liamine; tetraethylenepentamine 1.503 droxybenzene; phenylalcohol 1.46	
Bioconcentration factor (BCF)	Not available.	
12.4. Mobility in soil	No data available.	
12.5. Results of PBT and vPvB assessment	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.	
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Discourage sewage disposal. Waste should not be disposed of by release to sewers. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

ΙΑΤΑ

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk Not applicable.

according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

Retained direct EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Silicon dioxide (CAS 112945-52-5) Talc (CAS 14807-96-6)

phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered

Not listed.

Other regulations

This product is classified and labelled in accordance with the retained CLP Regulation (EC) No 1272/2008, as amended for Great Britain. This Safety Data Sheet is compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.

Follow the requirements of the Control of Substances Hazardous to Health Regulations 2002 [SI 2002/2677], as amended, when using this material.

15.2.	Chemical	safety

No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

List of abbreviations

	 ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways. ADR: Agreement concerning the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstract Service. CEN: European Committee for Standardization. IATA: International Air Transport Association. IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk. IMDG: International Maritime Dangerous Goods. MARPOL: International Convention for the Prevention of Pollution from Ships. PBT: Persistent, bioaccumulative and toxic. RID: Regulations concerning the International Carriage of Dangerous Goods by Rail. STEL: Short term exposure limit. TWA: Time Weighted Average. vPvB: Very persistent and very bioaccumulative.
References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any statements, which are not written out in full	
under sections 2 to 15	 H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H331 Toxic if inhaled. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

Revision information	Product and Company Identification: Product Registration Numbers SECTION 2: Hazards identification: Hazard statements SECTION 2: Hazards identification: Response SECTION 2: Hazards identification: Supplemental label information Physical & Chemical Properties: Multiple Properties SECTION 11: Toxicological information: Acute toxicity SECTION 11: Toxicological information: Ingestion SECTION 13: Disposal considerations: Disposal methods/information GHS: Classification
Training information	Follow training instructions when handling this material.
Disclaimer	ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or

in any process, unless specified in the text. The information given is designed only as a guidance

for safe handling, use, processing, storage, transportation, disposal and release.

Material name: Repair Compound Hardener DM004H Version #: 02 Revision date: 30-August-2024 Issue date: 04-August-2023