

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

1.1. Product identifier	
Trade name or designation of the mixture	Metal Adhesive H Component B
Registration number	-
Synonyms	None.
SDS number	5654
Product code	Ford Internal Ref.: 193356
Issue date	15-July-2015
Version number	1.0
Revision date	15-July-2015
Product use	Professional use
1.2. Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	Adhesive.
Uses advised against	None known.
1.3. Details of the supplier of the	e safety data sheet
Company name	Ford Motor Company Ltd.
Address	Parts Distribution Centre
	Royal Oak Way South
	NN11 8NT Daventry, Northants
	United Kingdom
Telephone number	+44 1327 305 198
Address	Ford-Werke GmbH
	Edsel-Ford-Str. 2-14
	50769 Köln
	Germany
Telephone number	+49 221 90-33333
E-mail	HSE@rle.de
1.4 Emergency telephone number	+49 (0) 6132-84463 (GBK GmbH – 24/7)

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.
Skin corrosion/irritation	Category 1A	H314 - Causes severe skin burns and eye damage.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.
Specific target organ toxicity - single exposure	Category 3 respiratory tract irritation	H335 - May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	Category 2	H373 - May cause damage to organs through prolonged or repeated exposure.
Environmental hazards Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Contains:

3-Aminopropyldimethylamine, 4,4'-Methylenebis(cyclohexylamine), Poly(oxy-1,4-butanediyl), alpha-hydro-omega-hydroxy-, polymer with ammonia, Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl groups, Triethylenetetramine

Hazard pictograms



Signal word	Danger			
Hazard statements				
H302	Harmful if swallowed.			
H314	Causes severe skin burns and eye damage.			
H317	May cause an allergic skin reaction.			
H335	May cause respiratory irritation.			
H373	May cause damage to organs through prolonged or repeated exposure.			
H411	Toxic to aquatic life with long lasting effects.			
Precautionary statements				
Prevention				
P260	Do not breathe dust/fume/gas/mist/vapors/spray.			
P273	Avoid release to the environment.			
P280	Wear protective gloves/protective clothing/eye protection/face protection.			
Response				
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.			
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P310	Immediately call a POISON CENTER/doctor.			
Storage	None.			
Disposal	None.			
Supplemental label information	None.			
2.3. Other hazards	The mixture contains no substance that fulfils the criteria of a PBT- or $vPvB$ substance.			
SECTION 3: Composition/information on ingredients				

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3.2. Mixtures

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Note
Poly(oxy-1,4-butanediyl), alpha-hydro-omega-hydr with ammonia		25 - 40 r	960525-56-8 -	-	-	
Classification:	Acute Tox.	4;H302, Skir	n Corr. 1C;H314, S	STOT SE 3;H335, Aquatic Chror	iic 3;H412	
4,4'-Methylenebis(cycloh	exylamine)	10 - < 20	1761-71-3 217-168-8	-	-	
Classification:	Acute Tox. Chronic 2;H		n Corr. 1A;H314, S	Skin Sens. 1;H317, STOT RE 2;I	1373, Aquatic	
Fatty acids, C18-unsatur reaction products with polyethylenepolyamines	ated dimers,	10 - < 20	68410-23-1 -	-	-	
Classification:	Eye Dam. 1	;H318, Aqua	atic Acute 1;H400,	Aquatic Chronic 1;H410		
Reaction products of propane-1,2-diol, propox amination of the terminal groups		10 - < 20	9046-10-0 -	01-2119557899-12-XXXX	-	
Classification:	Skin Corr. 1	C:H314. Aa	uatic Chronic 2;H4	411		

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
1,3-Bis[3-(dimethylamino)prop	oyl]urea 1 - < 5	52338-87-1 257-861-2	-	-	
Classification: Skin	n Irrit. 2;H315, Eye I	rrit. 2;H319			
3-Aminopropyldimethylamine	1 - < 5	109-55-7 203-680-9	01-2119486842-27-XXXX	612-061-00-6	
Classification: Flat	m. Liq. 3;H226, Acu	te Tox. 4;H302, Ski	n Corr. 1B;H314, Skin Sens. 1;	;H317	
Triethylenetetramine	1 - < 3	112-24-3 203-950-6	-	612-059-00-5	
Classification: Acu	ute Tox. 4;H312, Ski	n Corr. 1B;H314, S	kin Sens. 1;H317, Aquatic Chro	onic 3;H412	
Composition comments	The full text for all	R- and H-phrases	is displayed in section 16.		
SECTION 4: First aid meas	<u>sures</u>				
General information	personnel are awa	are of the material(ce (show the label where possil s) involved, and take precaution attendance. Wash contaminat	ns to protect them	selves. Show
4.1. Description of first aid meas					
Inhalation		fresh air and keep pr/physician if you fe	at rest in a position comfortable eel unwell.	e for breathing. Ca	all a POISON
Skin contact	or poison control	nated clothing imme centre immediately hing before reuse.	ediately and wash skin with soa Chemical burns must be treat	p and water. Call ed by a physician	a physician . Wash
Eye contact	Immediately flush	eyes with plenty of	water for at least 15 minutes. sing. Call a physician or poison	Remove contact I	enses, if Imediately.
Ingestion			ntre immediately. Rinse mouth. Iat stomach content doesn't ge		miting. If
4.2. Most important symptoms and effects, both acute and delayed	include stinging, t	earing, redness, sw	kin damage. Causes serious ey velling, and blurred vision. Pern spiratory irritation. Prolonged e	nanent eye dama	ge including
4.3. Indication of any immediate medical attention and special treatment needed	immediately. Whil ambulance. Conti	e flushing, remove	s and treat symptomatically. Ch clothes which do not adhere to transport to hospital. Keep vic yed.	affected area. Ca	all an
SECTION 5: Firefighting m	neasures				
General fire hazards	No unusual fire or	explosion hazards	noted.		
5.1. Extinguishing media Suitable extinguishing media	Water fog. Foam.	Dry chemical powe	der. Carbon dioxide (CO2).		
Unsuitable extinguishing media	Do not use water	jet as an extinguish	er, as this will spread the fire.		
5.2. Special hazards arising from the substance or mixture	During fire, gases	hazardous to heal	h may be formed.		
5.3. Advice for firefighters Special protective equipment for firefighters	Self-contained bre	eathing apparatus a	and full protective clothing must	t be worn in case	of fire.
Special fire fighting procedures	Move containers f	rom fire area if you	can do so without risk.		
Specific methods	Use standard firef	ighting procedures	and consider the hazards of ot	ther involved mate	erials.
CECTION C. Assidental val					

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8.

For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
6.3. Methods and material for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). 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. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Storage temperature: between 5°C and 35°C.
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control	parameters
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Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Follow standard monitoring procedures.
p. 000uu. 00	

Derived no-effect level (DNEL)

Comments:

Comments:

Components		Туре	Route	Value	Form
3-Aminopropyldime 109-55-7)	thylamine (CAS	Professional	Inhalation	9.8 mg/m3	
Comments:	Short term expos	sure - systemic effects			
			Inhalation	4.9 mg/m3	
Comments:	Long term expos	sure systemic effects			
Reaction products of propoxylated by am hydroxyl groups (CA	ination of the terminal	Consumer	Dermal	0.311 mg/cm2	
Comments:	Long term expos	sure - local effects			
			Dermal	1.25 mg/kg/BW/day	
Comments: Long term exp		sure systemic effects			
			Oral	0.04 mg/kg/BW/day	
Comments:	Long term exposure systemic effects				
		Professional	Dermal	0.623 mg/cm2	
Comments: Long term exposure - local effects		sure - local effects			
			Dermal	2.5 mg/kg/BW/d	ay
Comments:	Long term expos	sure systemic effects			
dicted no effect cor	centrations (PNECs))			
Components		Туре	Route	Value	Form
3-Aminopropyldime 109-55-7)	thylamine (CAS	Not applicable	Freshwater	0.034 mg/l	
			Seawater	0.0034 mg/l	
			Sediment	0.221 mg/kg	
•	Europhysics to a				

Sediment

0.0221 mg/kg

Freshwater

Seawater

Components	Туре	Route	Value	Form
		Soil	0.0242 mg/kg	
		STP	69.5 mg/l	
		Water	0.34 mg/l	
Comments:	Intermittent release			
Reaction products of pro propoxylated by amination hydroxyl groups (CAS 90	on of the terminal	Freshwater	0.015 mg/l	
		Oral	6.93 mg/kg	
Comments:	food, predators			
		Seawater	0.0142 mg/l	
•		Sediment	0.132 mg/kg	
Comments:	Freshwater	0 "		
• ·		Sediment	0.125 mg/kg	
Comments:	Seawater	0 "		
		Soil	0.0176 mg/kg	
		STP	7.5 mg/l	
_		Water	0.15 mg/l	
Comments:	Intermittent release			
2. Exposure controls				
propriate engineering ntrols	Good general ventilation (typic should be matched to condition or other engineering controls to exposure limits have not been wash facilities and emergency	ns. If applicable, us o maintain airborne established, maint	e process enclosu levels below recor ain airborne levels	res, local exhaust ventilation, mmended exposure limits. If to an acceptable level. Eye
•	ures, such as personal protective e			
General information	Use personal protective equipr according to the CEN standard equipment.			
Eye/face protection	Wear safety glasses with side	shields (or goggles	s) and a face shield	l.
	, ,		,	
Skin protection	N 124-11 -			
- Hand protection	Nitrile.			
	Glove thickness 0.4 mm. Break through time > = 480 mi	n.		
	Glove recommendation: Cama www.kcl.de) or comparable pro		Kächele-Cama Gm	bH, source of supply see
	Hand protection in case of spla Nitrile.	ash contact		
	Glove thickness 0.4 mm. Break through time > = 480 mi	n		
	Glove recommendation: Cama www.kcl.de) or comparable pro		Kächele-Cama Gm	bH, source of supply see
	The protective gloves to be use the resultant standard EN374. EN374. The recommendation i Special working conditions, like can reduce the protective effect	The above given in s only valid for the e heat or mechanic	nformation is based supplied product a al strain, which dev	I on laboratory test in line with nd the stated application. viate from the test conditions,
- Other	Wear appropriate chemical res	istant clothing.		
Respiratory protection	In case of insufficient ventilatio	n, wear suitable re	spiratory equipmer	nt.
Thermal hazards	Wear appropriate thermal prote			
	Keep away from food and drink	-	good personal hygi	
giene measures	washing after handling the mat			
giene measures		uipment to remove		

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Paste.
Form	Paste.
Colour	Grey.
Odour	Characteristic
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	1 - 3 mPa·s
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information	
Density	0.90 - 1.10 g/cm ³ @ 20°C
VOC (EU)	0 %
VOC (CH)	< 3 %

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	Contact with incompatible materials.
10.5. Incompatible materials	Peroxides. Phenols.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely route	es of exposure	
Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.	
Skin contact	Causes severe skin burns. May cause an allergic skin reaction.	
Eye contact	Causes serious eye damage.	
Ingestion	Causes digestive tract burns. Harmful if swallowed.	
Symptoms	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.	

11.1. Information on toxicological effects

Product	Species		Test results	
Metal Adhesive H Component B				
Acute				
Dermal				
			> 2000 mg/kg (calcd. ATE)	
Oral				
			700 - 1500 mg/kg (calcd. ATE)	
Components	Species		Test results	
3-Aminopropyldimethylamine (CA	AS 109-55-7)			
Acute				
Oral				
			500 mg/kg (acc. CLP 3.1.2)	
4,4'-Methylenebis(cyclohexylamir	ne) (CAS 1761-7	71-3)		
Acute				
Oral				
LD50	Rat		380 mg/kg	
Poly(oxy-1,4-butanediyl), alpha-h	ydro-omega-hyd	droxy-, polymer with ammonia (CAS 9605	525-56-8)	
<u>Acute</u>				
Oral				
			500 mg/kg (acc. CLP 3.1.2)	
Triethylenetetramine (CAS 112-2	4-3)			
Acute				
Dermal				
			300 mg/kg (acc. CLP 3.1.2)	
Skin corrosion/irritation	Causes skin	burns.		
Serious eye damage/eye		bus eye damage.		
rritation				
Respiratory sensitisation	Based on ava	ailable data, the classification criteria are	not met.	
Skin sensitisation	May cause an allergic skin reaction.			
Germ cell mutagenicity		ailable data, the classification criteria are	not met.	
Carcinogenicity	Based on available data, the classification criteria are not met.			
Reproductive toxicity	Based on available data, the classification criteria are not met.			
Specific target organ toxicity -		May cause respiratory irritation.		
single exposure	may sauce re			
Specific target organ toxicity -	May cause d	amage to organs through prolonged or re	epeated exposure.	
repeated exposure	,			
Aspiration hazard	Not likely, du	Not likely, due to the form of the product.		
Mixture versus substance	No information available.			
information				
Other information	Not available	<i>).</i>		
SECTION 12: Ecological i	nformation			
12.1. Toxicity	I OXIC TO AQUA	atic life with long lasting effects.	-	
Components		Species	Test results	
4,4'-Methylenebis(cyclohexylamir	ne) (CAS 1761-7	(1-3)		
Aquatic	5056			
Crustacea	EC50	Daphnia magna	6.84 mg/l, 48 h	
Fish	LC50	Leuciscus idus	46 - 100 mg/l, 96 h	
Fatty acids, C18-unsaturated dim	ers, reaction pro	oducts with polyethylenepolyamines (CA	S 68410-23-1)	
Aquatic				
Algae	EC50	Desmodesmus subspicatus (reported a	as 0.9 mg/l, 72 h	
		Scenedesmus subspicatus)		

Desmodesmus subspicatus(reported as 0.4 mg/l, 72 h

Scenedesmus subspicatus)

NOEC

Components	Species	S	Test results
Crustacea	EC50 Daphnia	a magna	0.46 mg/l, 48 h
Fish	LC50 Oncorhy	ynchus mykiss	2.4 mg/l, 96 h
Reaction products of propane-1,2	2-diol, propoxylated by ami	ination of the terminal hydroxy	/l groups (CAS 9046-10-0)
Other		kirchnerella subcapitata	15 mg/l, 72 h
	NOEC Pseudo	kirchnerella subcapitata	0.32 mg/l, 72 h
Aquatic		,	
Crustacea	EC50 Daphnia	a magna	80 mg/l, 48 h
Fish	LC50 Leucisc	C C	> 220 mg/l, 96 h
2.2. Persistence and degradability	No data is available on	No data is available on the degradability of this product.	
Biodegradability			
	Aerobic biodegradation)		
3-Aminopropyldimethyla		65 % (OECD 301 D)	
Fatty acids, C18-unsatu with polyethylenepolyam	rated dimers, reaction pro-	ducts < 60 % (OECD 301 E	3)
Reaction products of pro	pane-1,2-diol, propoxylate	ed by 0 % (OECD 301 B)	
amination of the termina Triethylenetetramine	l hydroxyl groups	0 % (OECD 301 D)	
2.3. Bioaccumulative potentia	I Not available		
Partition coefficient n-octanol			
water (log Kow)			
3-Aminopropyldimethylamine		-0.352	
Fatty acids, C18-unsaturated polyethylenepolyamines	I dimers, reaction products	s with 8.71	
Triethylenetetramine		-2.65	
2.4. Mobility in soil	Not available.		
2.5. Results of PBT	The mixture contains no substance that fulfils the criteria of a PBT- or vPvB substance.		teria of a PBT- or vPvB substance.
and vPvB			
assessment		energy and a figure (a second second	
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 co	nsiderations		
3.1. Waste treatment methods	i		
Residual waste			oty containers or liners may retain some
	product residues. This Disposal instructions).	material and its container mus	st be disposed of in a safe manner (see:
Contaminated packaging	•	ers may retain product residue	e, follow label warnings even after container
			proved waste handling site for recycling or
	disposal.		
EU waste code	The Waste code should disposal company.	d be assigned in discussion b	etween the user, the producer and the wast
	08 04 09 15 01 10		
Disposal methods/information	this material to drain in with chemical or used o	to sewers/water supplies. Do	at licensed waste disposal site. Do not allow not contaminate ponds, waterways or ditche s/container in accordance with
	D D D D D D D D D D	3	

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

General ADR	IMDG Regulated Marine Pollutant.	
14.1. UN number	UN2735	
14.2. UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Poly(oxy-1,4-butanediyl), alpha-hydro-omega-hydroxy-, polymer with ammonia; 4,4'-Methylenebis(cyclohexylamine))	
14.3. Transport hazard class		
Class	8	
Subsidiary risk	-	
Label(s)	8	

Hazard No. (ADR) Tunnel restriction code	80 E		
14.4. Packing group			
14.5. Environmental hazards			
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.		
for user			
Special provisions	274		
Classification code	C7		
ΙΑΤΑ			
14.1. UN number	UN2735		
14.2. UN proper shipping	Amines, liquid, corrosive, n.o.s. (Poly(oxy-1,4-butanediyl), alpha-hydro-omega-hydroxy-, polymer		
name	with ammonia; 4,4'-Methylenebis(cyclohexylamine))		
14.3. Transport hazard class	(es)		
Class	8		
Subsidiary risk	-		
14.4. Packing group	II		
Packaging instructions	851		
Packaging instructions	855		
cargo only	Vec		
14.5. Environmental hazards			
ERG Code	8L		
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.		
Other information			
Passenger and cargo	Allowed.		
aircraft	Allowed.		
Cargo aircraft only	Allowed.		
Maximum net quantity	1L		
packaging - Passenger			
and cargo aircraft	30 L		
Maximum net quantity packaging cargo only	30 L		
Maximum net quantity	0.50 L		
packaging - Limited			
quantity			
Special provisions	A3,A803		
IMDG			
14.1. UN number	UN2735		
14.2. UN proper shipping	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.		
name	(Poly(oxy-1,4-butanediyl), alpha-hydro-omega-hydroxy-, polymer with ammonia; 4,4'-Methylenebis(cyclohexylamine))		
14.3. Transport hazard class			
Class	8		
Subsidiary risk	-		
14.4. Packing group	II		
14.5. Environmental hazards			
Marine pollutant	Yes		
EmS	F-A, S-B		
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.		
for user	· · · · · · ·		
Special provisions	274		
14.7. Transport in bulk	Not available.		
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

 EU regulations

 Not applicable.

 Restrictions on use

 Not applicable.

 Other regulations

 This Safety Data Sheet complies with the requirements of Regulation (EC) No 453/2010.

Other EU regulations

Directive 94/33/EC on the protection of young people at work, as amended

3-Aminopropyldimethylamine (CAS 109-55-7)

Triethylenetetramine (CAS 112-24-3)

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

3-Aminopropyldimethylamine (CAS 109-55-7) Triethylenetetramine (CAS 112-24-3)

0 %

VOC (EU):

Directive 2012/18/EU on major accident hazards involving dangerous substances

Category: E2

National regulations	Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ist of abbreviations	
	AC: Article category.
	acc., acc.to: according, according to.
	ACGIH: American Conference of Governmental Industrial Hygienists.
	AFNOR: French Institute for Standards (Association Française de Normalisation).
	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses
	par voies de navigation intérieures). ADR: European agreement concerning the international carriage of dangerous goods by road
	(Accord européen relatif transport des merchandises dangereuses par route).
	AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).
	AICS: Australian Inventory of Chemical Substances. ANSI: American National Standards Institute.
	AOEL: Acceptable Operator Exposure Level.
	AOX: adsorbable organic halogen compounds.
	approx.: approximately.
	ASTM: ASTM International.
	ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).
	BAM: Federal Institute for Materials Research and Testing, Germany (Bundesanstalt für Materialforschung und -prüfung).
	Maximum permissible concentration of biological working substances (BAT: Biologische
	Arbeitsstofftoleranzwerte).
	BAuA: Federal Institute for Occupational Health and Safety, Germany (Bundesanstalt für Arbeitsschutz und Arbeitsmedizin).
	BCF: Bio-concentration factor.
	BET: Brunauer-Emmett-Teller.
	BLV: Biological Limit Value.
	BLV: Biological Limit Value (BGW: Biologischer Grenzwert, Austria).
	BMGV: Biological Monitoring Guidance Value (EH40,UK).
	BSI: British Standards Institution.
	BS: British Standard.
	BOD5: Biochemical oxygen demand within 5 days.
	BOD: Biochemical oxygen demand.
	bw: Body weight.
	calcd.: calculated.
	CAS: Chemical Abstract Service.
	CEN: European Committee for Standardization (Comité Européen de Normalisation).
	CESIO: European Committee on Organic Surfactants and their Intermediates (Comité Européen
	des Agents de Surface et de leurs Intermédiaires Organiques).
	ChemRRV: Ordinance on the risk reduction related to chemical products (ChemRRV:
	Chemikalien-Risikoreduktions-verordnung, Switzerland).
	CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification,
	labeling and packaging of substances and mixtures.
	CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction.
	CNS: Central Nervous System.
	CNT: Carbon nanotubes.
	COD: Chemical Oxygen Demand.
	CSA: Chemical Safety Assessment.
	CSR: Chemical Safety Report.

DETEC: Swiss Federal Department of the Environment, Transport, Energy and Communications. DIN: German Standards Institute / German industrial norm (Deutsches Institut für Normung / Deutsche Industrienorm). DMEL: Derived Minimum Effect Level. DNEL: Derived No Effect Level. DOC: Dissolved organic carbon. DPD: Directive 1999-45-EC / Dangerous Preparations Directive. DSD: Directive 67/548-EC / Dangerous Substances Directive. DSL: Canada, Domestic Substances List. DU: Downstream User. dw: dry weight. e.g.: For example, for instance. EBW: Exposure Based Waiving. EC: European Community. EC50: Effective Concentration 50%. ECHA: European Chemical Agency. EINECS: European Inventory of Existing Commercial Chemical Substances. ELINCS: European List of Notified Chemical Substances. EN: European norm. ENCS: Japan, Inventory of Existing and New Chemical Substances. EPA: United States Environmental Protection Agency. ERC: Environmental release category. ES: Exposure scenario. EUSES: European Union System for the Evaluation of Substances. EWC/EWL: European Waste Catalogue. GCL: General concentration limit. gen.: general. GHS: Globally Harmonized System of Classification and Labeling of Chemicals. GLP: Good Laboratory Practice. GW/VL: Occupational exposure limit value. GW-kw: Occupational exposure limit value - short term. GW-M/VL-M: Occupational exposure limit value - "Ceiling". GWP: Global Warming Potential. HPV: High Production Volume Chemicals. HEPA: High Efficiency Particulate Air. IARC: International Agency for Research on Cancer. IATA: International Air Transport Association. IBC: Intermediate Bulk Container. IBC Code: International Bulk Chemical (Code) (International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk). ICAO: International Civil Aviation Organization. IC50: Inhibition Concentration 50%. IECSC: Inventory of Existing Chemical Substances in China. IMDG Code: International Maritime Dangerous Goods Code. IMO: International Maritime Organization. incl.: including, inclusive. ISO: International Standards Organization. IUCLID: International Uniform Chemical Information Database. IUPAC: International Union for Pure Applied Chemistry. KECI: Korea Existing Chemicals Inventory. LCA: Life Cycle Assessment. LC: Lethal Concentration. LC50: Lethal Concentration 50%. LCLo: Lowest published lethal concentration. LD50: Lethal Dose 50%. LEV: Local exhaust ventilation. LOAEL: Lowest observed adverse effect level. LOEC: Lowest observable effect concentration. LOEL: Lowest observable effect level. LPV: Low Production Volume Chemicals. LQ: Limited Quantities. Air Quality Control Regulation (LRV: Luftreinhalteverordnung, Switzerland). TLV-STEL: Threshold limit value - Short-term exposure limit / Technical reference concentration short-time value (TRK-Kzw = Technische Richtkonzentration - Kurzzeitwert). Maximum allowable workplace concentration - instantaneous value (MAK-Mow: Maximale Arbeitsplatzkonzentration - Momentanwert, Austria)

Maximum allowable workplace concentration - daily mean value / Technical standard concentration - daily mean value (MAK-Tmw, TRK-Tmw : Maximale Arbeitsplatzkonzentration -Tagesmittelwert / TRK-Tmw = Technische Richtkonzentration – Tagesmittelwert, Austria). MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG). MARPOL: International Convention for the Prevention of Pollution From Ships. MTD: Maximum tolerated dose. MWCNT: Multi-walled carbon nanotubes. n.a.: not applicable. N/A: Not available. n.d.: not determined. NLP: No Longer Polymers. NDSL: Canada, Non-Domestic Substances List. NF: French Norm (See AFNOR). NFPA: National Fire Protection Association. NIOSH: National Institute for Occupational Safety & Health. NOAEC: No Observed Adverse Effect Concentration. NOAEL: No observed adverse effect level. NOEC: No observed effect concentration. NOEL: No observed effect level. NTP: National Toxicology Program. NZIoC: New Zealand Inventory of Chemicals. ODP: Ozone Depletion Potential. OECD: Organization for Economic Cooperation and Development. OEL: Occupational Exposure Limit. org.: organic. OSHA: Occupational Safety & Health Administration. PAH: Polycyclic Aromatic Hydrocarbons. PBT: Persistent, bioaccumulative, toxic. PC: Product category. PE: Polyethylene. PEC: Predicted Environmental Concentration. PEL: Permissible Exposure Limit. PIC: Prior Informed Consent. PICCS: Philippines Inventory of Commercial Chemical Substances. PNEC: Predicted No Effect Concentration. POCP: Photochemical ozone creation potential (Photochemisches Ozonbildungspotenzial). POP: Persistent Organic Pollutant. PPORD: Product and Process Oriented Research and Development. PPE: Personal Protective Equipment. PROC: Process category. RA: Risk Assessment. RAR: Risk Assessment Report. RCRA: Resource Conservation Recovery Act. REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals). RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer). RMM: Risk Management Measure. RTECS: Registry of Toxic Effects of Chemical Substances. QSAR: Quantitative Structure Activity Relation. SARA: Superfund Amendments and Reauthorization Act. SADT: Self-Accelerating Decomposition Temperature. SCL: Specific concentration limit. SEA: socio economic analysis. STEL: Short-term Exposure Limit. STP: Sewage treatment plant. SU: Sector of use. SVHC: Substance of Very High Concern. SWCNT: single-walled carbon nanotubes. ThOD: Theoretical oxygen demand. TOC: Total Organic Carbon. TLV: Threshold Limit Value. TRA: Targeted Risk Assessment. TSCA: Toxic Substance Control Act. TWA: Time Weighted Average. UC: Use category. UDS: Use descriptor system.

UEC: Use and exposure categories.

UN: United Nations. UN RTDG: United Nations Recommendations on the Transport of Dangerous Goods. UVCB: Unknown or Variable Composition, Complex Reaction Products, and Biological Materials. Regulation on combustible liquids (VbF: Verordnung über brennbare Flüssigkeiten, Austria). Regulation of the Austria Minister for Labor and Social Affairs regarding health surveillance at the workplace (VGÜ = Verordnung des Bundesministers für Arbeit und Soziales über die Gesundheitsüberwachung am Arbeitsplatz). VOC: Volatile organic compounds. vPvB: very Persistent, very Bioaccumulative. WEL-TWA: Workplace Exposure Limit-Long term exposure limit (8-hour TWA(=time weighted average)reference period). WEL-STEL: Workplace Exposure Limit-Short term exposure limit (15-minute reference period). WoE: Weight of evidence. WHMIS: Workplace Hazardous Materials Information System. WHO: World Health Organization. wwt: wet weight. Not available. Information on evaluation The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. method leading to the classification of mixture Full text of any H-statements not written out in full under H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eve irritation. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

Revision information Training information

Disclaimer

References

Sections 2 to 15

Follow training instructions when handling this material.

H412 Harmful to aquatic life with long lasting effects.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

None.

Attachment to the Safety Data Sheet





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Involved Products:

Finiscode	Part number	Container Size:
1.	FU7J M2G400 BA	65 ml
Part of Kit:		
1 947 915	FU7J M11P47 AA	Metal Adhesive Kit H – 2 Components