SAFETY DATA SHEET

Version #: 03 Issue date: 07-21-2023 Revision date: 07-31-2023 Supersedes date: 07-24-2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Aluminum Liquid (F-2) Hardener Trade name or designation of the mixture **Registration number** Synonyms None. SKU# 5331 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 safety data sheet Supplier Company name ITW Performance Polymers Address Bay 150 Shannon Industrial Estate Co. Clare, Ireland Division Phone 353(61)771500 Telephone e-mail customerservice.shannon@itwpp.com Not available. Contact person 1.4. Emergency telephone **Emergency Number** 44(0)1235 239 670 number General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) **Austria National Poisons** +431 406 4343 (Available 24 hours a day. SDS/Product information may not be Information Center available for the Emergency Service.) 070 245 245 (Available 24 hours a day. SDS/Product information may not be **Belgium National Poisons** available for the Emergency Service.) **Control Center Bulgaria National** +359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) **Toxicological Information** Center **Croatia Poisons** +385 1 2348 342 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.) Information Center **Cyprus Poison Center** 1401 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) +420 224 919 293, or +420 224 915 402 (Hours of operation not provided. **Czech Republic National** SDS/Product information may not be available for the Emergency Service.) **Poisons Information** Center +45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be **Denmark National Poisons** available for the Emergency Service.) **Control Center Estonia National Poisons** 16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be Information Center available for the Emergency Service.) **Finland National Poison** (09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. Information Center SDS/Product information may not be available for the Emergency Service.) ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. **France National Poisons** SDS/Product information may not be available for the Emergency Service.) **Control Center**

Greece Poison Information Centre	(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Hungary National Emergency Phone Number	+36-80-201-199 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Iceland Poison Center	(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Latvia Emergency medical aid	113
Latvia Poison and Drug Information Center	+371 67042473 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Lithuania Neatidėliotina informacija apsinuodijus	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Malta Accident and Emergency Department	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Netherlands National Poisons Information Center (NVIC)	NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)
Norway Norwegian Poison Information Center	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Portugal Poison Center	800 250 250 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Romania Biroul RSI si Informare Toxicologica	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
Slovakia National Toxicological Information Center	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Spain Toxicology Information Service	+ 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Sweden National Poison Information Center	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Switzerland Tox Info Suisse	145 (Available 24 hours a day. 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		
Skin corrosion/irritation	Category 1B	H314 - Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Skin sensitization	Category 1	H317 - May cause an allergic skin reaction.
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 UFI:

Austria: UT40-60FR-Q00F-VVR9 Belgium: UT40-60FR-Q00F-VVR9 Bulgaria: UT40-60FR-Q00F-VVR9 Croatia: UT40-60FR-Q00F-VVR9 Cyprus: UT40-60FR-Q00F-VVR9 Czech Republic: UT40-60FR-Q00F-VVR9 Denmark: UT40-60FR-Q00F-VVR9 Estonia: UT40-60FR-Q00F-VVR9 EU: UT40-60FR-Q00F-VVR9 Finland: UT40-60FR-Q00F-VVR9 France: UT40-60FR-Q00F-VVR9 Germany: UT40-60FR-Q00F-VVR9 Greece: UT40-60FR-Q00F-VVR9 Hungary: UT40-60FR-Q00F-VVR9 Iceland: UT40-60FR-Q00F-VVR9 Ireland: UT40-60FR-Q00F-VVR9 Italy: UT40-60FR-Q00F-VVR9 Latvia: UT40-60FR-Q00F-VVR9 Lithuania: UT40-60FR-Q00F-VVR9 Luxembourg: UT40-60FR-Q00F-VVR9 Malta: UT40-60FR-Q00F-VVR9 Netherlands: UT40-60FR-Q00F-VVR9 Norway: UT40-60FR-Q00F-VVR9 Poland: UT40-60FR-Q00F-VVR9 Portugal: UT40-60FR-Q00F-VVR9 Romania: UT40-60FR-Q00F-VVR9 Slovakia: UT40-60FR-Q00F-VVR9 Slovenia: UT40-60FR-Q00F-VVR9 Spain: UT40-60FR-Q00F-VVR9 Sweden: UT40-60FR-Q00F-VVR9

Contains:

Hazard pictograms

3,6-diazaoctanethylenediamin; triethylenetetramine, benzyl alcohol



Signal word

Hazard statements

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P260	Do not breathe mist/vapors.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Response	
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
Storage	
P405	Store locked up.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

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: Composit	on/information on ingredients		
3.2. Mixtures			
General information			
Chemical name	% CAS-No. / EC No. REACH Registration No. Index No. Notes		
3,6-diazaoctanethylenedi triethylenetetramine			
Cla	ssification: Acute Tox. 4;H302;(ATE: 1716 mg/kg bw), Acute Tox. 4;H312;(ATE: 1100 mg/kg bw), Skin Corr. 1B;H314, Eye Dam. 1;H318, Skin Sens. 1;H317, Aquatic Chronic 3;H412		
benzyl alcohol	10 - 30 100-51-6 - 603-057-00-5 202-859-9		
Cl;	ssification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Acute Tox. 4;H312;(ATE: 2000 mg/kg bw), Acute Tox. 4;H332;(ATE: 11 mg/l), Aquatic Chronic 2;H411		
Other components below levels	reportable 50		
ATE: Acute toxicity estim M: M-factor vPvB: very persistent and PBT: persistent, bioaccur #: This substance has be	nbols that may be used above te. very bioaccumulative substance. ulative and toxic substance. n assigned Union workplace exposure limit(s). ercent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.		
Composition comments	The full text for all H-statements is displayed in section 16.		
SECTION 4: First aid r	easures		
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.		
4.1. Description of first aid r Inhalation Skin contact	Move to fresh air. Call a physician if symptoms develop or persist. Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash		
Eye contact	contaminated clothing before reuse. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if		
Ingestion	present and easy to do. Continue rinsing. Call a physician or poison control center immediately. Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.		
4.2. Most important sympton and effects, both acute and delayed	t symptoms Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may		
4.3. Indication of any immediate medical attention and special treatment neede	 Provide general supportive measures and treat symptomatically. Chemical burns: Flush with wate immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed. 		
SECTION 5: Firefightin	g measures		
General fire hazards	No unusual fire or explosion hazards noted.		
5.1. Extinguishing media Suitable extinguishing media	Alcohol resistant foam. Powder. Carbon dioxide (CO2).		
Unsuitable extinguishin media	g Do not use water jet as an extinguisher, as this will spread the fire.		
5.2. Special hazards arising from the substance or mixtu	During fire, gases hazardous to health may be formed. re		
5.3. Advice for firefighters Special protective equipment for firefighte	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. s		
Special fire fighting procedures	Move containers from fire area if you can do so without risk.		
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.		
Matarial names Aluminum Liquid			

SECTION 6: Accidental release measures

6.1. Personal precautions, prote	ctive equipment and emergency procedures	
For non-emergency personnel	Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.	
For emergency responders	Keep unnecessary personnel away. Ensure adequate ventilation. Avoid breathing mist/vapors. 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 release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.	
6.3. Methods and material for	Prevent product from entering drains.	
containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. 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 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 breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.	
7.2. Conditions for safe	Store locked up. Store in tightly closed container. Store away from incompatible materials (see	

7.2. Conditions for safe	Store locked up. Store in tightly closed container. Store away from incompatible materials (see
storage, including any	Section 10 of the SDS).
incompatibilities	

Directive 2012/18/EU on major accident hazards involving dangerous substances, as	amended
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ANNEX 1, PART 1 Categories of dangerous substances

- Hazard categories in accordance with Regulation (EC) No 1272/2008
- E2 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 200 tons; Upper-tier requirements = 500 tons)
- 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

Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as			
amended			
Components	Туре	Value	

p	- 71	
benzyl alcohol (CAS 100-51-6)	TWA	5 mg/m3

Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)

Components	Туре	Value
benzyl alcohol (CAS 100-51-6)	Ceiling	80 mg/m3
	TWA	40 mg/m3
Estonia. OELs. Occupational Exp Components	osure Limits of Hazardous Sul Type	bstances (Regulation No. 105/2001, Annex), as amended Value
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	STEL	12 mg/m3
	TWA	6 mg/m3
		1 ppm
Finland, HTP-arvot, App 3., Bindi	ng Limit Values, Social Affairs	and Ministry of Health

Finland. HTP-arvot, App 3., Binding Limit Values, Social Affairs and Ministry of Health Components Type Value

	· · ·	
benzyl alcohol (CAS 100-51-6)	TWA	45 mg/m3

Components	Туре	Value	
		10 ppm	
Germany. DFG MAK List (advisory n the Work Area (DFG), as update		nvestigation of Health Hazar	ds of Chemical Compounds
Components	Туре	Value	Form
oenzyl alcohol (CAS 100-51-6)	TWA	22 mg/m3	Vapor and aerosol.
		5 ppm	Vapor and aerosol.
Germany. TRGS 900, Limit Values		-	Form
Components	Туре	Value	Form
penzyl alcohol (CAS 100-51-6)	AGW	22 mg/m3	Vapor and aerosol.
		5 ppm	Vapor and aerosol.
celand. OELs. Regulation 390/200 Components	9 on Pollution Limits and Mea Type	asures to Reduce Pollution a Value	t the Workplace, as amende
3,6-diazaoctanethylenedia nin; triethylenetetramine CAS 112-24-3)	TWA	6 mg/m3	
		1 ppm	
₋atvia. OELs. Occupational Expos I), as amended	ure Limits of Chemical Subst	ances at Workplace (Reg. No	o. 325/ 2007, L.V. 80, Annex
Components	Туре	Value	
penzyl alcohol (CAS 100-51-6)	TWA	5 mg/m3	
Lithuania. OELs. Occupational Ex V-824/A1-389), as amended	posure Limit Values for Chem	ical Substances (Hygiene No	orm HN 23:2011; Order No.
Components	Туре	Value	
3,6-diazaoctanethylenedia nin; triethylenetetramine CAS 112-24-3)	STEL	12 mg/m3	
		2 ppm	
	TWA	6 mg/m3	
		1 ppm	
	TWA	1 ppm 5 mg/m3	
penzyl alcohol (CAS 100-51-6) Norway. Regulation No. 1358 on N Infection Groups for Biological Fa	TWA leasures and Limit Values for	5 mg/m3	ors in Work Environment an
100-51-6) Norway. Regulation No. 1358 on N nfection Groups for Biological Fa	TWA leasures and Limit Values for	5 mg/m3	ors in Work Environment an
100-51-6) Norway. Regulation No. 1358 on M Infection Groups for Biological Fa Components 3,6-diazaoctanethylenedia min; triethylenetetramine	TWA leasures and Limit Values for ctors, as amended	5 mg/m3 Physical and Chemical Facto	ors in Work Environment an
100-51-6) Norway. Regulation No. 1358 on M Infection Groups for Biological Fa Components 3,6-diazaoctanethylenedia min; triethylenetetramine	TWA leasures and Limit Values for ctors, as amended Type	5 mg/m3 Physical and Chemical Factor Value	ors in Work Environment an
100-51-6) Norway. Regulation No. 1358 on M Infection Groups for Biological Fa Components 3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	TWA leasures and Limit Values for ctors, as amended Type TLV	5 mg/m3 Physical and Chemical Factor Value 6 mg/m3 1 ppm	
100-51-6) Norway. Regulation No. 1358 on N Infection Groups for Biological Fa Components 3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3) Poland. Maximum permissible cor 1286/2018, Annex 1)	TWA leasures and Limit Values for ctors, as amended Type TLV	5 mg/m3 Physical and Chemical Factor Value 6 mg/m3 1 ppm f harmful factors in the work	
100-51-6) Norway. Regulation No. 1358 on N Infection Groups for Biological Fa Components 3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3) Poland. Maximum permissible cor 1286/2018, Annex 1) Components	TWA leasures and Limit Values for ctors, as amended Type TLV ncentrations and intensities of Type	5 mg/m3 Physical and Chemical Factor Value 6 mg/m3 1 ppm f harmful factors in the work Value	
100-51-6) Norway. Regulation No. 1358 on M Infection Groups for Biological Fa Components 3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3) Poland. Maximum permissible cor	TWA leasures and Limit Values for ctors, as amended Type TLV	5 mg/m3 Physical and Chemical Factor Value 6 mg/m3 1 ppm f harmful factors in the work	
100-51-6) Norway. Regulation No. 1358 on M nfection Groups for Biological Fa Components 3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3) Poland. Maximum permissible cor 1286/2018, Annex 1) Components 3,6-diazaoctanethylenedia min; triethylenetetramine	TWA leasures and Limit Values for ctors, as amended Type TLV ncentrations and intensities of Type	5 mg/m3 Physical and Chemical Factor Value 6 mg/m3 1 ppm f harmful factors in the work Value	

Components	Туре		Value	
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	STEL		20 mg/m3	
(0, 10, 1, 12, 10)			3,3 ppm	
	TWA		10 mg/m3	
			1,7 ppm	
	onal Exposure Limits of Che at Work, Annex I), as amend			on of Workers from Risks
Components	Туре		Value	
benzyl alcohol (CAS 100-51-6)	TWA		22 mg/m3	
			5 ppm	
	Work Environment Authorit	(AV), Occupational	Exposure Limit Va	alues (AFS 2018:1), as
amended Components	Туре		Value	
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	STEL		12 mg/m3	
			2 ppm	
	TWA		6 mg/m3	
			1 ppm	
Switzerland. SUVA Grenzy Components	verte am Arbeitsplatz: Aktue Type	Ile MAK-Werte	Value	Form
benzyl alcohol (CAS 100-51-6)	TWA		22 mg/m3	Vapor and aerosol.
			5 ppm	Vapor and aerosol.
logical limit values	No biological exposure lim	its noted for the ingre	dient(s).	
commended monitoring cedures	Follow standard monitorin	g procedures.		
ived no effect levels IELs)	Not available.			
dicted no effect acentrations (PNECs)	Not available.			
oosure guidelines				
Germany DFG MAK (advis	ory): Skin designation			
benzyl alcohol (CAS 10 Germany TRGS 900 Limit V	Values: Skin designation		d through the skin.	
benzyl alcohol (CAS 10 Lithuania OELs: Skin desig	gnation		d through the skin.	
benzyl alcohol (CAS 10 Slovenia. OELs. Regulatio (Official Gazette of the Reg	ns concerning protection of		d through the skin. ks due to exposure	e to chemicals while work
benzyl alcohol (CAS 10	•		d through the skin.	
benzyl alcohol (CAS 10	•	-	d through the skin.	
Exposure controls			-	
propriate engineering htrols	applicable, use process en maintain airborne levels b	nclosures, local exhau elow recommended ex orne levels to an acce	st ventilation, or oth xposure limits. If exp ptable level. Eye wa	e matched to conditions. If her engineering controls to posure limits have not been ash facilities and emergency
ividual protection measures	s, such as personal protecti			
General information			Personal protection	equipment should be chose

Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield. 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	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	Inform appropriate managerial or supervisory personnel of all environmental releases. 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 physic	al and chemical properties
Physical state	Liquid.
Form	Liquid.
Color	Amber.
Odor	Amine-like.
Melting point/freezing point	4,64 °F (-15,2 °C) estimated
Boiling point or initial boiling point and boiling range	420,8 °F (216 °C) estimated
Flammability	Not applicable.
Flash point	199,9 °F (93,3 °C) estimated
Auto-ignition temperature	640 °F (337,78 °C) estimated
Decomposition temperature	Not available.
рН	Not available.
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapor pressure	5,73 hPa estimated
Density and/or relative density	
Density	0,97 g/cm3 estimated
Vapor density	Not available.
Particle characteristics	Not available.
9.2. Other information	
9.2.1. Information with regard to physical hazard classes	No relevant additional information available.
9.2.2. Other safety characteristic	CS
Specific gravity	0,97 estimated
VOC	100 % SOLIDS
SECTION 10: Stability and reactivity	
10.1 Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport

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	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 routes 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.
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.

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

Acute toxicity	Not known.	
Components	Species	Test Results
3,6-diazaoctanethylenediamin; trie	thylenetetramine (CAS 112-24-3)	
<u>Acute</u>		
Dermal		
Liquid		
LD50	Rat	1465 mg/kg
Oral		
Liquid		
LD50	Rat	1716 mg/kg
benzyl alcohol (CAS 100-51-6)		
<u>Acute</u>		
Dermal LD50	Rabbit	2000 mg/kg
Skin corrosion/irritation	Causes severe skin burns and eye dama	ge.
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory sensitization	Due to partial or complete lack of data the	e classification is not possible.
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	Due to partial or complete lack of data the	e classification is not possible.
Carcinogenicity	Due to partial or complete lack of data the	e classification is not possible.
Reproductive toxicity	Due to partial or complete lack of data the	e classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the	e classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the	e classification is not possible.
Aspiration hazard	Due to partial or complete lack of data the	e classification is not possible.
Mixture versus substance information	No information available.	
11.2. Information on other hazar	ds	
Endocrine disrupting properties	This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.	
Other information	Not available.	
SECTION 12: Ecological i	nformation	
12.1. Toxicity	Toxic to aquatic life with long lasting effect not met for hazardous to the aquatic envi	cts. Based on available data, the classification criteria are ironment, acute hazard.
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)		
benzyl alcohol	1,1	

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. Endocrine disrupting properties	This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.		
12.7. Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.		
12.8. Additional information			
Estonia Dangerous substan	ces in soil Data		
benzyl alcohol (CAS 100-	51-6) Chemical pesticides (As the total sum of the active substances) 0,5 MG/KG Chemical pesticides (As the total sum of the active substances) 20 MG/KG Chemical pesticides (As the total sum of the active substances) 5 MG/KG		
SECTION 13: Disposal con	nsiderations		
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. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Special precautions	Dispose in accordance with all applicable regulations.		
SECTION 14: Transport in	formation		
ADR			
14.1. UN number			
14.2. UN proper shipping	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3,6-diazaoctanethylenediamin; triethylenetetramine, Aliphatic Amines), Limited Quantity		
name 14.3. Transport hazard class			
Class	8		
Subsidiary risk	-		
Label(s)	8		
Hazard No. (ADR)	80		
Tunnel restriction code			
14.4. Packing group			
14.5. Environmental hazards			
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.		
RID			
14.1. UN number	UN2735		
14.2. UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3,6-diazaoctanethylenediamin; triethylenetetramine, Aliphatic Amines)		
14.3. Transport hazard class	(es)		
Class	8		
Subsidiary risk	-		
Label(s)	8		
14.4 Packing group			

14.5. Environmental hazards No.14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

14.4. Packing group

ADN

14.1. UN number UN2735

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14.2. UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3,6-diazaoctanethylenediamin; triethylenetetramine, Aliphatic Amines)
14.3. Transport hazard class	(es)
Class	8
Subsidiary risk	-
Label(s)	8
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IATA	
14.1. UN number	UN2735
14.2. UN proper shipping name	Amines, liquid, corrosive, n.o.s. (3,6-diazaoctanethylenediamin; triethylenetetramine, Aliphatic Amines), Limited Quantity
14.3. Transport hazard class	(es)
Class	8
Subsidiary risk	-
14.4. Packing group	II
14.5. Environmental hazards	No.
ERG Code	8L
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
14.1. UN number	UN2735
14.2. UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3,6-diazaoctanethylenediamin; triethylenetetramine, Aliphatic Amines), Limited Quantity
14.3. Transport hazard class	(es)
Class	8
Subsidiary risk	-
14.4. Packing group	II
14.5. Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
14.7. Maritime transport in bulk according to IMO instruments	Not established.





SECTION 15: Regulatory information

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

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 Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

UFI:

Austria: UT40-60FR-Q00F-VVR9 Belgium: UT40-60FR-Q00F-VVR9 Bulgaria: UT40-60FR-Q00F-VVR9 Croatia: UT40-60FR-Q00F-VVR9 Cyprus: UT40-60FR-Q00F-VVR9 Czech Republic: UT40-60FR-Q00F-VVR9 Denmark: UT40-60FR-Q00F-VVR9 Estonia: UT40-60FR-Q00F-VVR9 EU: UT40-60FR-Q00F-VVR9 Finland: UT40-60FR-Q00F-VVR9 France: UT40-60FR-Q00F-VVR9 Germany: UT40-60FR-Q00F-VVR9 Greece: UT40-60FR-Q00F-VVR9 Hungary: UT40-60FR-Q00F-VVR9 Iceland: UT40-60FR-Q00F-VVR9 Ireland: UT40-60FR-Q00F-VVR9 Italy: UT40-60FR-Q00F-VVR9 Latvia: UT40-60FR-Q00F-VVR9 Lithuania: UT40-60FR-Q00F-VVR9 Luxembourg: UT40-60FR-Q00F-VVR9 Malta: UT40-60FR-Q00F-VVR9 Netherlands: UT40-60FR-Q00F-VVR9 Norway: UT40-60FR-Q00F-VVR9 Poland: UT40-60FR-Q00F-VVR9 Portugal: UT40-60FR-Q00F-VVR9 Romania: UT40-60FR-Q00F-VVR9 Slovakia: UT40-60FR-Q00F-VVR9 Slovenia: UT40-60FR-Q00F-VVR9 Spain: UT40-60FR-Q00F-VVR9 Sweden: UT40-60FR-Q00F-VVR9

Authorizations

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

Restrictions on use

- Conditions of restriction Not listed.	2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended given for the associated entry number should be considered he protection of workers from the risks related to exposure to carcinogens and mutagens at
Other EU regulations	Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended ANNEX 1, PART 1 Categories of dangerous substances Hazard categories in accordance with Regulation (EC) No 1272/2008 - E2 Hazardous to the Aquatic Environment Chronic
Other regulations	The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.
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, as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.
France regulations	

ance regulations

France INRS Table of Occupational Diseases

Not regulated.

Product registration number

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Austria	UFI: UT40-60FR-Q00F-VVR9
Belgium	UFI: UT40-60FR-Q00F-VVR9
Czech Republic	UFI: UT40-60FR-Q00F-VVR9
Denmark	UFI: UT40-60FR-Q00F-VVR9
Finland	UFI: UT40-60FR-Q00F-VVR9
France	UFI: UT40-60FR-Q00F-VVR9
Germany	UFI: UT40-60FR-Q00F-VVR9
Greece	UFI: UT40-60FR-Q00F-VVR9
Hungary	UFI: UT40-60FR-Q00F-VVR9
Italy	UFI: UT40-60FR-Q00F-VVR9
Netherlands	UFI: UT40-60FR-Q00F-VVR9
Norway	UFI: UT40-60FR-Q00F-VVR9
Poland	UFI: UT40-60FR-Q00F-VVR9
Portugal	UFI: UT40-60FR-Q00F-VVR9
Slovakia	UFI: UT40-60FR-Q00F-VVR9
Slovenia	UFI: UT40-60FR-Q00F-VVR9
Spain	UFI: UT40-60FR-Q00F-VVR9
Sweden	UFI: UT40-60FR-Q00F-VVR9
Switzerland	UFI: UT40-60FR-Q00F-VVR9
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.
	AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).
	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.
	MAC: Maximum Allowed Concentration.
	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.
	TLV: Threshold Limit Value.
	TWA: Time Weighted Average.
	VLE: Exposure Limit Value.
	VME: Exposure Average Value.
	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	 H302 Harmful if swallowed. 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. H332 Harmful if inhaled. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Revision information	Physical & Chemical Properties: Multiple Properties
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.