SAFETY DATA SHEET

Version #: 06 Issue date: 06-17-2014 Revision date: 08-04-2023 Supersedes date: 07-15-2023

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

	of the substance/mixture and of the company/undertaking
1.1. Product identifier Trade name or designation of the mixture	Insulcast 140 FR - Part A
Registration number	-
Synonyms	None.
SKU#	IE208R
	he substance or mixture and uses advised against
Identified uses	Not available.
Uses advised against	None known.
1.3. Details of the supplier of the	
Company Name	ITW Performance Polymers
Address	Bay 150 Shannon Industrial Estate
	Co. Clare
	Ireland
	V14 DF82
Contact Person	Customer Service
Telephone Number	353(61)771500
	353(61)471285
Email	customerservice.shannon@itwpp.com
Emergency Phone Number	44(0) 1235 239 670 (24 hours)
1.4. Emergency telephone numb General in EU	per 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Austria National Poisons Information Center	+431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Belgium National Poisons Control Center	070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Bulgaria National Toxicological Information Center	+359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Croatia Poisons Information Center	+385 1 2348 342 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Cyprus Poison Center	1401 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Czech Republic National Poisons Information Center	+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Denmark National Poisons Control Center	+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Estonia National Poisons Information Center	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 available for the Emergency Service.)
Finland National Poison Information Center	(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
France National Poisons Control Center	ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

1.4. Emergency telephone numb	
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	Cotomer 1	
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 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: 1K15-71FY-G00N-EGFG

	Belgium: 1K15-71FY-G00N-EGFG Bulgaria: 1K15-71FY-G00N-EGFG Croatia: 1K15-71FY-G00N-EGFG Czech Republic: 1K15-71FY-G00N-EGFG Denmark: 1K15-71FY-G00N-EGFG Estonia: 1K15-71FY-G00N-EGFG EU: 1K15-71FY-G00N-EGFG Finland: 1K15-71FY-G00N-EGFG Germany: 1K15-71FY-G00N-EGFG Greece: 1K15-71FY-G00N-EGFG Hungary: 1K15-71FY-G00N-EGFG Iceland: 1K15-71FY-G00N-EGFG Iceland: 1K15-71FY-G00N-EGFG Italy: 1K15-71FY-G00N-EGFG Latvia: 1K15-71FY-G00N-EGFG Latvia: 1K15-71FY-G00N-EGFG Latvia: 1K15-71FY-G00N-EGFG Malta: 1K15-71FY-G00N-EGFG Dereformer State 1K15-71FY-G00N-EGFG Lithuania: 1K15-71FY-G00N-EGFG Lithuania: 1K15-71FY-G00N-EGFG Malta: 1K15-71FY-G00N-EGFG Norway: 1K15-71FY-G00N-EGFG
	Slovenia: 1K15-71FY-G00N-EGFG Spain: 1K15-71FY-G00N-EGFG Sweden: 1K15-71FY-G00N-EGFG
Contains:	Aluminium Oxide, butyl glycidyl ether; butyl 2,3-epoxypropyl ether, Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers, reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)
Hazard pictograms	
Signal word	Warning
Hazard statements	
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	Avoid has this a wist/versus
P261	Avoid breathing mist/vapors. Wash thoroughly after handling.
P264 P272	Contaminated work clothing should not be allowed out of the workplace.
P272 P273	Avoid release to the environment.
P280	Wear eye protection/face protection.
P280	Wear protective gloves/protective clothing.
Response	
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: Ĝet medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
P362 + P364 P391	Collect spillage.
	Not available.
Storage	
Disposal	Dianage of contents/container in accordance with lacel/contents/continue-l/contents to substitute a
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

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

General information					
Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No. Notes	
Aluminium Oxide	60 - 100	1344-28-1 215-691-6	-	-	
Classif	cation: -				
reaction product: bisphenol-A-(epichlorhydrin); e resin (number average molecu weight ≤ 700)		25068-38-6 500-033-5	-	603-074-00-8	
Classif	cation: Skin Irrit. 2 Chronic 2;I		319, Skin Sens. 1;H317, Aqı	uatic	
Specific Concentration	Limits: Skin Irrit. 2	;H315: C ≥ 5 %, Eye	Irrit. 2;H319: C ≥ 5 %		
Propane, 2,2-bis[p-(2,3-epoxypropoxy)p polymers	10 - < 20 henyl]-,	25085-99-8 -	01-2119456619-26-0000	-	
Classif	cation: Skin Irrit. 2	;H315, Eye Irrit. 2;H	319, Skin Sens. 1;H317		
butyl glycidyl ether; butyl 2,3-epoxypropyl ether	1 - 5	2426-08-6 219-376-4	-	603-039-00-7	
Classif	3;H311;(A	ΓΕ: 788 mg/kg bw), / 317, Muta. 2;H341, C	4;H302;(ATE: 500 mg/kg bw Acute Tox. 4;H332;(ATE: 11 arc. 2;H351, STOT SE 3;H3	mg/l), Skin	
Other components below repo levels	rtable 10 - 30				
M: M-factor vPvB: very persistent and very PBT: persistent, bioaccumulat #: This substance has been as	ve and toxic substa signed Union work	nce. place exposure limit(
All concentrations are in perce Composition comments			blayed in section 16.	ercent by volume.	
•					
SECTION 4: First aid meas			• · · · · · · ·		
General information		s. Show this safety o	are of the material(s) involve lata sheet to the doctor in at	ed, and take precautions to tendance. Wash contaminated	
4.1. Description of first aid meas	ures				
Inhalation			mptoms develop or persist.		
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if you feel unwell. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.				
Eye contact			vater for at least 15 minutes. ng. Get medical attention if i	. Remove contact lenses, if rritation develops and persists.	
Ingestion	Rinse mouth. Get	medical advice/atter	ntion if you feel unwell.		
I.2. Most important symptoms and effects, both acute and delayed			nclude stinging, tearing, red ess and pain. May cause an	ness, swelling, and blurred allergic skin reaction. Dermatitis	
4.3. Indication of any mmediate medical attention and special treatment needed		upportive measures . Symptoms may be		Keep victim warm. Keep victim	
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 powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
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.

SECTION 6: Accidental release measures

6.1. Personal precautions, prote	ctive equipment and emergency procedures
For non-emergency personnel	Avoid breathing mist/vapors. 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. 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 entry into waterways, sewer, basements or confined areas.
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

U U	0
7.1. Precautions for safe handling	Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. 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. 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).
	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 (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

Austria. MAK List, OEL Ordinance (GwV), BGBI. II, no. 184/2001, as amended

Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	MAK	5 mg/m3	Respirable fraction.
		5 mg/m3	Respirable fume.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fume.

Austria. MAK List, OEL Ordinance Components	Type	Value	Form
		10 mg/m3	Respirable fraction.
Belgium. OEL. Exposure Limit Val Chemical agents, as amended	ues to Chemical Substances	at Work, Code of Well-being a	at work, Book VI, Title 1 -
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
outyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6)	TWA	16,2 mg/m3	
		3 ppm	
Bulgaria. OELs. Ordinance No 13 o amended	on protection of workers agai	nst risks of exposure to chen	nical agents at work, as
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	10 mg/m3	Inhalable fraction.
		1,5 mg/m3	Respirable fraction.
Croatia. OELs (GVI). Regulation or Biological Limit Values, Annex I (N		st Exposure to Dangerous Cl	nemicals at Work, OELs ar
Components	Туре	Value	Form
Aluminium Oxide (CAS	MAC	4 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS	MAC	10 mg/m3 3 ppm	Total dust.
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6)		3 ppm	
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney	bosure limit values of chemica k 3, Part A, as amended)	3 ppm	tion of health at work,
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney	oosure limit values of chemica x 3, Part A, as amended) Type	3 ppm als at work (Decree on protect Value	
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney Components Aluminium Oxide (CAS	bosure limit values of chemica k 3, Part A, as amended)	3 ppm	tion of health at work,
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney Components Aluminium Oxide (CAS 1344-28-1) Denmark. Work Environment Auth	oosure limit values of chemica x 3, Part A, as amended) Type TWA aority. Exposure Limits for Su	3 ppm als at work (Decree on protect Value 0,1 mg/m3 bstances & Materials, Annex	tion of health at work, Form Respirable dust. 2
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney Components Aluminium Oxide (CAS 1344-28-1) Denmark. Work Environment Auth Components	bosure limit values of chemica x 3, Part A, as amended) Type TWA TWA hority. Exposure Limits for Su Type	3 ppm als at work (Decree on protect Value 0,1 mg/m3 bstances & Materials, Annex Value	tion of health at work, Form Respirable dust. 2 Form
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney Components Aluminium Oxide (CAS 1344-28-1) Denmark. Work Environment Auth Components Aluminium Oxide (CAS	oosure limit values of chemica x 3, Part A, as amended) Type TWA aority. Exposure Limits for Su	3 ppm als at work (Decree on protect Value 0,1 mg/m3 bstances & Materials, Annex	tion of health at work, Form Respirable dust. 2
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney Components Aluminium Oxide (CAS 1344-28-1) Denmark. Work Environment Auth Components Aluminium Oxide (CAS	bosure limit values of chemica x 3, Part A, as amended) Type TWA TWA hority. Exposure Limits for Su Type TLV	3 ppm als at work (Decree on protect Value 0,1 mg/m3 bstances & Materials, Annex Value	tion of health at work, Form Respirable dust. 2 Form
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Annex Components Aluminium Oxide (CAS 1344-28-1) Denmark. Work Environment Auth Components Aluminium Oxide (CAS 1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS	bosure limit values of chemica x 3, Part A, as amended) Type TWA TWA hority. Exposure Limits for Su Type	3 ppm als at work (Decree on protect Value 0,1 mg/m3 bstances & Materials, Annex Value 5 mg/m3	tion of health at work, Form Respirable dust. 2 Form Total
1344-28-1) butyl glycidyl ether; butyl	bosure limit values of chemica x 3, Part A, as amended) Type TWA TWA hority. Exposure Limits for Su Type TLV	3 ppm als at work (Decree on protect Value 0,1 mg/m3 bstances & Materials, Annex Value 5 mg/m3 2 mg/m3	tion of health at work, Form Respirable dust. 2 Form Total
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Annex Components Aluminium Oxide (CAS 1344-28-1) Denmark. Work Environment Auth Components Aluminium Oxide (CAS 1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS	bosure limit values of chemica x 3, Part A, as amended) Type TWA hority. Exposure Limits for Su Type TLV TLV	3 ppm als at work (Decree on protect Value 0,1 mg/m3 bstances & Materials, Annex Value 5 mg/m3 2 mg/m3 30 mg/m3 6 ppm	tion of health at work, Form Respirable dust. 2 Form Total Respirable.
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney Components Aluminium Oxide (CAS 1344-28-1) Denmark. Work Environment Auth Components Aluminium Oxide (CAS 1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Estonia. OELs. Occupational Expo Components Aluminium Oxide (CAS	bosure limit values of chemica x 3, Part A, as amended) Type TWA nority. Exposure Limits for Su Type TLV TLV Soure Limits of Hazardous Su	3 ppm als at work (Decree on protect Value 0,1 mg/m3 bstances & Materials, Annex Value 5 mg/m3 2 mg/m3 30 mg/m3 6 ppm bstances (Regulation No. 105	tion of health at work, Form Respirable dust. 2 Form Total Respirable.
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney Components Aluminium Oxide (CAS 1344-28-1) Denmark. Work Environment Auth Components Aluminium Oxide (CAS 1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Estonia. OELs. Occupational Expo Components Aluminium Oxide (CAS	bosure limit values of chemica x 3, Part A, as amended) Type TWA nority. Exposure Limits for Su Type TLV TLV TLV Soure Limits of Hazardous Su Type	3 ppm als at work (Decree on protect Value 0,1 mg/m3 bstances & Materials, Annex Value 5 mg/m3 2 mg/m3 30 mg/m3 6 ppm bstances (Regulation No. 105 Value	tion of health at work, Form Respirable dust. 2 Form Total Respirable. /2001, Annex), as amende Form Fine dust, respiratory
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney Components Aluminium Oxide (CAS 1344-28-1) Denmark. Work Environment Auth Components Aluminium Oxide (CAS 1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Estonia. OELs. Occupational Expo Components Aluminium Oxide (CAS 1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 1344-28-1)	bosure limit values of chemica x 3, Part A, as amended) Type TWA nority. Exposure Limits for Su Type TLV TLV TLV Soure Limits of Hazardous Su Type	3 ppm als at work (Decree on protect Value 0,1 mg/m3 bstances & Materials, Annex Value 5 mg/m3 2 mg/m3 30 mg/m3 6 ppm bstances (Regulation No. 105 Value 4 mg/m3	tion of health at work, Form Respirable dust. 2 Form Total Respirable. /2001, Annex), as amende Form Fine dust, respiratory fraction
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney Components Aluminium Oxide (CAS 1344-28-1) Denmark. Work Environment Auth Components Aluminium Oxide (CAS 1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Estonia. OELs. Occupational Expo Components Aluminium Oxide (CAS 1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 1344-28-1)	oosure limit values of chemica x 3, Part A, as amended) Type TWA nority. Exposure Limits for Su Type TLV TLV TLV TLV TLV	3 ppm als at work (Decree on protect Value 0,1 mg/m3 bstances & Materials, Annex Value 5 mg/m3 2 mg/m3 30 mg/m3 6 ppm bstances (Regulation No. 105 Value 4 mg/m3 10 mg/m3 80 mg/m3	tion of health at work, Form Respirable dust. 2 Form Total Respirable. /2001, Annex), as amende Form Fine dust, respiratory fraction
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney Components Aluminium Oxide (CAS 1344-28-1) Denmark. Work Environment Auth Components Aluminium Oxide (CAS 1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Estonia. OELs. Occupational Expc Components Aluminium Oxide (CAS 1344-28-1) butyl glycidyl ether; butyl Aluminium Oxide (CAS 1344-28-1)	oosure limit values of chemica x 3, Part A, as amended) Type TWA nority. Exposure Limits for Su Type TLV TLV TLV TLV TLV	3 ppm als at work (Decree on protect Value 0,1 mg/m3 bstances & Materials, Annex Value 5 mg/m3 2 mg/m3 30 mg/m3 6 ppm bstances (Regulation No. 105 Value 4 mg/m3 10 mg/m3	tion of health at work, Form Respirable dust. 2 Form Total Respirable. /2001, Annex), as amende Form Fine dust, respiratory fraction

butyl glycidyl ether; butyl STEL 2,3-epoxypropyl ether (CAS 2426-08-6) France. Threshold Limit Values (VLEP) for Occupational Exposure to Components Type Aluminium Oxide (CAS 1344-28-1) VME Regulatory status: Indicative limit (VL) butyl glycidyl ether; butyl VME 2,3-epoxypropyl ether (CAS 2426-08-6) Regulatory status: Indicative limit (VL) Begulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) Germany. DFG MAK List (advisory OELs). Commission for the Invess in the Work Area (DFG), as updated Type Aluminium Oxide (CAS TWA 1344-28-1) TWA Germany. TRGS 900, Limit Values in the Ambient Air at the Workplat Components Type Aluminium Oxide (CAS AGW 1344-28-1) AGW 1344-28-1)	Value 10 mg/m3 135 mg/m3 25 ppm stigation of Health Hazard Value 4 mg/m3 1,5 mg/m3	
ComponentsTypeAluminium Oxide (CASVME1344-28-1)Regulatory status:Indicative limit (VL)butyl glycidyl ether; butylVME2,3-epoxypropyl ether (CAS2426-08-6)Regulatory status:Indicative limit (VL)Regulatory status:Indicative limit (VL)Germany. DFG MAK List (advisory OELs). Commission for the Invession the Work Area (DFG), as updatedComponentsTypeAluminium Oxide (CASTWA1344-28-1)TypeAluminium Oxide (CASAGW1344-28-1)AGW	o Chemicals in France, IN Value 10 mg/m3 135 mg/m3 25 ppm stigation of Health Hazard Value 4 mg/m3 1,5 mg/m3 ce	s of Chemical Compounds Form Inhalable dust.
ComponentsTypeAluminium Oxide (CASVME1344-28-1)Regulatory status:Regulatory status:Indicative limit (VL)butyl glycidyl ether; butylVME2,3-epoxypropyl ether (CAS2426-08-6)Regulatory status:Regulatory status:Indicative limit (VL)Regulatory status:Indicative limit (VL)Germany. DFG MAK List (advisory OELs). Commission for the Invession the Work Area (DFG), as updatedComponentsTypeAluminium Oxide (CASTWA1344-28-1)TypeAluminium Oxide (CASAGW1344-28-1)AGW	Value 10 mg/m3 135 mg/m3 25 ppm stigation of Health Hazard Value 4 mg/m3 1,5 mg/m3 ce	s of Chemical Compounds Form Inhalable dust.
1344-28-1) Regulatory status: Indicative limit (VL) butyl glycidyl ether; butyl VME 2,3-epoxypropyl ether (CAS 2426-08-6) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) Germany. DFG MAK List (advisory OELs). Commission for the Investin the Work Area (DFG), as updated Type Components Type Aluminium Oxide (CAS TWA 1344-28-1) AGW	135 mg/m3 25 ppm stigation of Health Hazard Value 4 mg/m3 1,5 mg/m3 ce	Form Inhalable dust.
butyl glycidyl ether; butyl VME 2,3-epoxypropyl ether (CAS 2426-08-6) Regulatory status: Indicative limit (VL) Germany. DFG MAK List (advisory OELs). Commission for the Invess in the Work Area (DFG), as updated Components Type Aluminium Oxide (CAS TWA 1344-28-1) Germany. TRGS 900, Limit Values in the Ambient Air at the Workplac Components Type Aluminium Oxide (CAS AGW 1344-28-1)	25 ppm stigation of Health Hazard Value 4 mg/m3 1,5 mg/m3 ce	Form Inhalable dust.
2,3-epoxypropyl ether (CAS 2426-08-6) Regulatory status: Indicative limit (VL) Germany. DFG MAK List (advisory OELs). Commission for the Investin the Work Area (DFG), as updated Components Type Aluminium Oxide (CAS TWA Germany. TRGS 900, Limit Values in the Ambient Air at the Workplact Components Type Aluminium Oxide (CAS AGW Aluminium Oxide (CAS AGW	25 ppm stigation of Health Hazard Value 4 mg/m3 1,5 mg/m3 ce	Form Inhalable dust.
Regulatory status: Indicative limit (VL) Germany. DFG MAK List (advisory OELs). Commission for the Investion the Work Area (DFG), as updated Components Type Aluminium Oxide (CAS TWA 1344-28-1) Two Germany. TRGS 900, Limit Values in the Ambient Air at the Workplan Components Type Aluminium Oxide (CAS Type Aluminium Oxide (CAS AGW Aluminium Oxide (CAS AGW	Value 4 mg/m3 1,5 mg/m3	Form Inhalable dust.
Germany. DFG MAK List (advisory OELs). Commission for the Investin the Work Area (DFG), as updated Components Type Aluminium Oxide (CAS TWA 1344-28-1) Germany. TRGS 900, Limit Values in the Ambient Air at the Workplact Gomponents Type Aluminium Oxide (CAS Aluminium Oxide (CAS) Germany. TRGS 900, Limit Values in the Ambient Air at the Workplact Components Type Aluminium Oxide (CAS) AGW 1344-28-1) AGW	Value 4 mg/m3 1,5 mg/m3	Form Inhalable dust.
Germany. DFG MAK List (advisory OELs). Commission for the Investion the Work Area (DFG), as updated Components Type Aluminium Oxide (CAS TWA 1344-28-1) TWA Germany. TRGS 900, Limit Values in the Ambient Air at the Workplact Components Type Aluminium Oxide (CAS Aluminium Oxide (CAS) Aluminium Oxide (CAS) Aluminium Oxide (CAS) Aluminium Oxide (CAS) AGW 1344-28-1) Aluminium Oxide (CAS)	Value 4 mg/m3 1,5 mg/m3 ce	Form Inhalable dust.
ComponentsTypeAluminium Oxide (CAS 1344-28-1)TWAGermany. TRGS 900, Limit Values in the Ambient Air at the Workplac ComponentsTypeAluminium Oxide (CAS 1344-28-1)AGW	4 mg/m3 1,5 mg/m3 ce	Inhalable dust.
1344-28-1) Germany. TRGS 900, Limit Values in the Ambient Air at the Workplac Components Type Aluminium Oxide (CAS AGW 1344-28-1)	1,5 mg/m3 ce	
Germany. TRGS 900, Limit Values in the Ambient Air at the WorkplacComponentsTypeAluminium Oxide (CASAGW1344-28-1)	ce	Respirable dust.
ComponentsTypeAluminium Oxide (CASAGW1344-28-1)AGW		
1344-28-1)		Form
	10 mg/m3	Inhalable fraction.
Greece OELs Presidential Decree No. 307/1986 as amended	1,25 mg/m3	Respirable fraction.
	, - G	,
Components Type	Value	Form
Aluminium Oxide (CAS TWA 1344-28-1)	5 mg/m3	Respirable.
	10 mg/m3	Inhalable
butyl glycidyl ether; butyl TWA 2,3-epoxypropyl ether (CAS 2426-08-6)	135 mg/m3	
	20 ppm	
Hungary. OELs. Decree on protection of workers exposed to chemic Components Type	cal agents (5/2020. (II.6)), / Value	Annex 1&2, as amended Form
Aluminium Oxide (CAS TWA	5 mg/m3	
1344-28-1)	2 mg/m3	Respirable.
Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measure Components Type	-	
Aluminium Oxide (CAS TWA 1344-28-1)	10 mg/m3	
butyl glycidyl ether; butyl TWA 2,3-epoxypropyl ether (CAS	30 mg/m3	
	6 ppm	
2426-08-6)		
		ulations
2426-08-6) Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Age Components Type		gulations Form
Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Age	ents and Carcinogens Reg	

Ireland. OELVs, Schedules 1 & 2, Code o Components	f Practice for Chemical Agents and Type	d Carcinogens Regu Value	ulations Form
butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6)	TWA	3 ppm	
Italy. OELs (Legislative Decree n.81, 9 Ap Components	ril 2008), as amended Type	Value	
butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6)	TWA	3 ppm	
Latvia. OELs. Occupational Exposure Lir 1), as amended	nits of Chemical Substances at Wo	orkplace (Reg. No. 3	325/ 2007, L.V. 80, Annex
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	6 mg/m3	Decomposition aerosol.
		4 mg/m3	
Lithuania. OELs. Occupational Exposure V-824/A1-389), as amended	Limit Values for Chemical Substa	nces (Hygiene Norn	n HN 23:2011; Order No.
Components	Туре	Value	
butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS	STEL	80 mg/m3	
2426-08-6)		15 ppm	
	TWA	50 mg/m3	
		10 ppm	
Norway. Regulation No. 1358 on Measure	s and Limit Values for Physical ar	d Chemical Factors	s in Work Environment and
Infection Groups for Biological Factors, a Components	as amended Type	Value	
Aluminium Oxide (CAS	TLV	10 mg/m3	
1344-28-1)		To mg/mo	
butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6)	TLV	27 mg/m3	
2.20.00.0)		5 ppm	
Poland. Maximum permissible concentra	tions and intensities of harmful fa	ctors in the work er	vironment (Dz.U.Poz.
1286/2018, Annex 1) Components	Туре	Value	Form
Aluminium Oxide (CAS	TWA	2,5 mg/m3	Inhalable fraction.
1344-28-1)		2,0 mg/mo	
		1,2 mg/m3	Respirable fraction.
butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6)	STEL	60 mg/m3	
	TWA	30 mg/m3	
Portugal. VLEs. Norm on occupational ex Components	posure to chemical agents (NP 17 Type	96-2014) Value	Form
Aluminium Oxide (CAS	TWA	1 mg/m3	Respirable fraction.
1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS	TWA	3 ppm	
2426-08-6) Romania. OELs. Limit Values of Chemica	I Agents at Workplace (Regulatior	n 1.218/2006, M.O 84	l5, Annex 1, 3&4, as
amended) Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	STEL	5 mg/m3	Aerosol.
<i>,</i>	TWA	2 mg/m3	Aerosol.

amended) Components	Туре	Value	Form
utyl glycidyl ether; butyl ,3-epoxypropyl ether (CAS 426-08-6)	STEL	200 mg/m3	
,		38 ppm	
	TWA	100 mg/m3	
		19 ppm	
Slovakia. OELs. Maximum permiss Annex 1, Table 1, as amended)	sible exposure limits for chemical f	factors in workplace air	(Regulation No 355/2006,
Components	Туре	Value	Form
Aluminium Oxide (CAS 344-28-1)	TWA	4 mg/m3	Inhalable fraction.
		0,1 mg/m3	Respirable fraction.
lovenia. OELs. Occupational Exp lue to Exp. to Chemicals at Work,	osure Limits of Chemicals at Work Annex I), as amended	xplace (Reg. on Protection	on of Workers from Risks
Components	Туре	Value	Form
Aluminium Oxide (CAS	TWA	10 mg/m3	Inhalable fraction.
344-28-1)		1,25 mg/m3	Respirable fraction.
Spain. OELs. INSST, Límites de Ex VLAs)	posición Profesional Para Agente	s Químicos, Table 1-Valo	ores Límites Ambientales
Components	Туре	Value	
Iuminium Oxide (CAS 344-28-1)	TWA	10 mg/m3	
outyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6)	TWA	16 mg/m3	
,		3 ppm	
	vironment Authority (AV), Occupa		alues (AFS 2018:1), as
mended	vironment Authority (AV), Occupa Type		alues (AFS 2018:1), as Form
amended Components Aluminium Oxide (CAS		tional Exposure Limit Va	
amended Components Aluminium Oxide (CAS	Туре	tional Exposure Limit Va Value	Form
Aumended Components Aluminium Oxide (CAS 344-28-1) Putyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS	Туре	tional Exposure Limit Va Value 5 mg/m3	Form Total dust.
mended Components Numinium Oxide (CAS 344-28-1) utyl glycidyl ether; butyl ,3-epoxypropyl ether (CAS	Type TWA	tional Exposure Limit Va Value 5 mg/m3 2 mg/m3	Form Total dust.
Auminium Oxide (CAS 344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS	Type TWA	tional Exposure Limit Va Value 5 mg/m3 2 mg/m3 80 mg/m3	Form Total dust.
Aluminium Oxide (CAS 1344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS	Type TWA STEL	tional Exposure Limit Va Value 5 mg/m3 2 mg/m3 80 mg/m3 15 ppm	Form Total dust.
Aluminium Oxide (CAS Aluminium Oxide (CAS 1344-28-1) putyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6)	TWA TWA	tional Exposure Limit Value 5 mg/m3 2 mg/m3 80 mg/m3 15 ppm 50 mg/m3 10 ppm	Form Total dust.
Aluminium Oxide (CAS Aluminium Oxide (CAS 1344-28-1) putyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Switzerland. SUVA Grenzwerte am	Type TWA STEL	tional Exposure Limit Value 5 mg/m3 2 mg/m3 80 mg/m3 15 ppm 50 mg/m3 10 ppm	Form Total dust.
Aluminium Oxide (CAS Aluminium Oxide (CAS 344-28-1) Putyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Switzerland. SUVA Grenzwerte am Components Aluminium Oxide (CAS	Type TWA STEL TWA Arbeitsplatz: Aktuelle MAK-Werte	tional Exposure Limit Value 5 mg/m3 2 mg/m3 80 mg/m3 15 ppm 50 mg/m3 10 ppm	Form Total dust. Respirable dust. Form
Aluminium Oxide (CAS Aluminium Oxide (CAS 344-28-1) Putyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Switzerland. SUVA Grenzwerte am Components Aluminium Oxide (CAS	Type TWA STEL TWA Arbeitsplatz: Aktuelle MAK-Werte Type	tional Exposure Limit Value 5 mg/m3 2 mg/m3 80 mg/m3 15 ppm 50 mg/m3 10 ppm Value	Form Total dust. Respirable dust. Form Respirable dust and/o
Aluminium Oxide (CAS Aluminium Oxide (CAS 1344-28-1) Dutyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Switzerland. SUVA Grenzwerte am Components Aluminium Oxide (CAS	Type TWA STEL TWA Arbeitsplatz: Aktuelle MAK-Werte Type STEL	tional Exposure Limit Value 5 mg/m3 2 mg/m3 80 mg/m3 15 ppm 50 mg/m3 10 ppm Value 24 mg/m3	Form Total dust. Respirable dust. Form Respirable dust and/o fume. Respirable dust.
Aluminium Oxide (CAS Aluminium Oxide (CAS (344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Switzerland. SUVA Grenzwerte am Components Aluminium Oxide (CAS (344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS	Type TWA STEL TWA Arbeitsplatz: Aktuelle MAK-Werte Type STEL	tional Exposure Limit Value 5 mg/m3 2 mg/m3 80 mg/m3 15 ppm 50 mg/m3 10 ppm Value 24 mg/m3 3 mg/m3	Form Total dust. Respirable dust. Form Respirable dust and/o fume. Respirable dust. Respirable dust. Respirable dust.
Aluminium Oxide (CAS Aluminium Oxide (CAS (344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6) Switzerland. SUVA Grenzwerte am Components Aluminium Oxide (CAS (344-28-1) butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS	Type TWA STEL TWA Arbeitsplatz: Aktuelle MAK-Werte Type STEL TWA	tional Exposure Limit Value 5 mg/m3 2 mg/m3 80 mg/m3 15 ppm 50 mg/m3 10 ppm Value 24 mg/m3 3 mg/m3 3 mg/m3	Form Total dust. Respirable dust. Form Respirable dust and/o fume. Respirable dust. Respirable dust. Respirable dust and/o
Aluminium Oxide (CAS Aluminium Oxide (CAS 1344-28-1) putyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6)	Type TWA STEL TWA Arbeitsplatz: Aktuelle MAK-Werte Type STEL TWA	tional Exposure Limit Value Value 5 mg/m3 2 mg/m3 80 mg/m3 15 ppm 50 mg/m3 10 ppm Value 24 mg/m3 3 mg/m3 3 mg/m3 270 mg/m3	Form Total dust. Respirable dust. Form Respirable dust and/o fume. Respirable dust. Respirable dust. Respirable dust and/o

UK. OELs. Workplace Ex Components	Type	• •	Value		Form
Aluminium Oxide (CAS 1344-28-1)	TWA	A	4 m	g/m3	Respirable dust.
			10 r	mg/m3	Inhalable dust.
iological limit values	. .	. <i>.</i> .			
Hungary. BELs. Decree Components	on protection of worker Value	s exposed to chem Determinant	Specimen	020. (II.6)), A Sampling T	
Aluminium Oxide (CAS 1344-28-1)	0,25 µmol/mmol	Aluminum	Creatinine in urine	*	
	0,06 mg/g	Aluminum	Creatinine in urine	*	
* - For sampling details, p	lease see the source doo	cument.			
Switzerland. SUVA Gren Components	zwerte am Arbeitsplatz Value	: Aktuelle BAT-Wer Determinant	te Specimen	Sampling T	ime
Aluminium Oxide (CAS 1344-28-1)	50 µg/g	Aluminium	Creatinine in urine	*	
* - For sampling details, p	lease see the source doo	ument.			
ecommended monitoring rocedures		onitoring procedures			
erived no effect levels DNELs)	Not available.				
redicted no effect oncentrations (PNECs)	Not available.				
xposure guidelines					
Austria MAK: Skin desig	Ination				
butyl glycidyl ether; b (CAS 2426-08-6) Belgium OELs: Skin des	utyl 2,3-epoxypropyl ethe	er Can be	absorbed throug	h the skin.	
butyl glycidyl ether; b	utyl 2,3-epoxypropyl ethe	er Can be	absorbed throug	h the skin.	
(CAS 2426-08-6) Germany DFG MAK (adv	•••				
butyl glycidyl ether; b (CAS 2426-08-6) Ireland Exposure Limit \	utyl 2,3-epoxypropyl ethe		absorbed throug	h the skin.	
-	utyl 2,3-epoxypropyl ethe		absorbed throug	h the skin.	
(CAS 2426-08-6) Italy OELs: Skin designa			3	,	
(CAS 2426-08-6)	utyl 2,3-epoxypropyl ethe	C C	of cutaneous ab	sorption	
Portugal VLEs Norm on				b the eld.	
(CAS 2426-08-6) Spain OELs: Skin desigi	utyl 2,3-epoxypropyl ethe	er Can be	absorbed throug	n the skin.	
	utyl 2,3-epoxypropyl ethe	er Can be	absorbed throug	h the skin.	
Switzerland SUVA Limit	Values at the Workplac	e: Skin designation	ı		
butyl glycidyl ether; b (CAS 2426-08-6)	utyl 2,3-epoxypropyl ethe	er Can be	absorbed throug	h the skin.	
2. Exposure controls					
ppropriate engineering ontrols	applicable, use pro maintain airborne l	cess enclosures, loc evels below recomm	al exhaust ventil ended exposure	ation, or other limits. If expo	matched to conditions. If engineering controls to sure limits have not been eyewash station and safety
ndividual protection measu					
General information	Use personal prote according to the CI equipment.	ctive equipment as r EN standards and in	equired. Persona discussion with t	al protection e he supplier of	equipment should be chose f the personal protective
Eye/face protection		es with side shields (or goggles). Face	e shield is reco	ommended.
Skin protection					

- Hand protection	Wear appropriate chemical resistant gloves.
- Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection Thermal hazards	In case of insufficient ventilation, wear suitable respiratory equipment. 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	cal and chemical properties
Physical state	Liquid.
Form	Liquid.
Color	Black.
Odor	Slight.
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	608 °F (320 °C) estimated
Flammability	Not applicable.
Flash point	265,0 °F (129,4 °C) estimated
Auto-ignition temperature	Not available.
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	Not available.
Density and/or relative density	
Density	2,42 g/cm3
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	2,42
SECTION 10: Stability and	d reactivity

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	Strong oxidizing agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.
SECTION 11. Toxicologia	al information

SECTION 11: Toxicological information

General information

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

Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact		via Course skin imitation. May source on allernic skin reaction
	Harmful in contact with sl	kin. Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.	
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.	
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. Dermatitis. Rash.	
11.1. Information on hazard clas	sses as defined in Regulat	ion (EC) No 1272/2008
Acute toxicity	Harmful in contact with sl	kin. Harmful in contact with skin.
Components	Species	Test Results
Aluminium Oxide (CAS 1344-28-1	•	
<u>Acute</u> Oral	,	
LD50	Rat	> 5000 mg/kg
outyl glycidyl ether; butyl 2,3-epox		
Acute	.)p. op. o	
Dermal		
LD50	Rabbit	0,788 g/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritat	ion.
Respiratory sensitization	Due to partial or complete	e lack of data the classification is not possible.
Skin sensitization	May cause an allergic ski	n reaction.
Germ cell mutagenicity	No data available to indic mutagenic or genotoxic.	ate product or any components present at greater than 0.1% are
Carcinogenicity	Risk of cancer cannot be	excluded with prolonged exposure.
	nance on protection agair	ist and preventing risk relating to exposure to carcinogens at work
(as amended) butyl glycidyl ether; butyl IARC Monographs. Overall butyl glycidyl ether; butyl	2,3-epoxypropyl ether (CAS Evaluation of Carcinogen	S 2426-08-6)
(as amended) butyl glycidyl ether; butyl IARC Monographs. Overall butyl glycidyl ether; butyl (CAS 2426-08-6)	2,3-epoxypropyl ether (CAS Evaluation of Carcinogen 2,3-epoxypropyl ether	S 2426-08-6) icity 2B Possibly carcinogenic to humans.
(as amended) butyl glycidyl ether; butyl IARC Monographs. Overall butyl glycidyl ether; butyl (CAS 2426-08-6) Reproductive toxicity Specific target organ toxicity -	2,3-epoxypropyl ether (CAS Evaluation of Carcinogen 2,3-epoxypropyl ether This product is not expec	6 2426-08-6) icity
(as amended) butyl glycidyl ether; butyl IARC Monographs. Overall butyl glycidyl ether; butyl (CAS 2426-08-6) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity -	2,3-epoxypropyl ether (CAS Evaluation of Carcinogen 2,3-epoxypropyl ether This product is not expec	S 2426-08-6) icity 2B Possibly carcinogenic to humans. ted to cause reproductive or developmental effects.
(as amended) butyl glycidyl ether; butyl IARC Monographs. Overall butyl glycidyl ether; butyl (CAS 2426-08-6) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure	2,3-epoxypropyl ether (CAS Evaluation of Carcinogeni 2,3-epoxypropyl ether This product is not expec Due to partial or complete Not applicable.	2B Possibly carcinogenic to humans. 2B Possibly carcinogenic to humans. ted to cause reproductive or developmental effects. e lack of data the classification is not possible.
(as amended) butyl glycidyl ether; butyl IARC Monographs. Overall butyl glycidyl ether; butyl (CAS 2426-08-6) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Mixture versus substance	2,3-epoxypropyl ether (CAS Evaluation of Carcinogeni 2,3-epoxypropyl ether This product is not expec Due to partial or complete Not applicable.	S 2426-08-6) icity 2B Possibly carcinogenic to humans. ted to cause reproductive or developmental effects.
(as amended) butyl glycidyl ether; butyl IARC Monographs. Overall butyl glycidyl ether; butyl (CAS 2426-08-6) Reproductive toxicity	2,3-epoxypropyl ether (CAS Evaluation of Carcinogeni 2,3-epoxypropyl ether This product is not expec Due to partial or complete Not applicable. Due to partial or complete No information available.	2B Possibly carcinogenic to humans. ted to cause reproductive or developmental effects. e lack of data the classification is not possible.
(as amended) butyl glycidyl ether; butyl IARC Monographs. Overall butyl glycidyl ether; butyl (CAS 2426-08-6) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Mixture versus substance information	2,3-epoxypropyl ether (CAS Evaluation of Carcinogeni 2,3-epoxypropyl ether This product is not expec Due to partial or complete Not applicable. Due to partial or complete No information available. rds This mixture does not cor to human health as asses	S 2426-08-6) icity 2B Possibly carcinogenic to humans. ted to cause reproductive or developmental effects. e lack of data the classification is not possible. e lack of data the classification is not possible.
(as amended) butyl glycidyl ether; butyl IARC Monographs. Overall butyl glycidyl ether; butyl (CAS 2426-08-6) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Mixture versus substance information 11.2. Information on other hazar Endocrine disrupting	2,3-epoxypropyl ether (CAS Evaluation of Carcinogeni 2,3-epoxypropyl ether This product is not expec Due to partial or complete Not applicable. Due to partial or complete No information available. rds This mixture does not cor to human health as asses 1907/2006, (EU) No 2017	2B Possibly carcinogenic to humans. ted to cause reproductive or developmental effects. e lack of data the classification is not possible. e lack of data the classification is not possible.
(as amended) butyl glycidyl ether; butyl IARC Monographs. Overall butyl glycidyl ether; butyl (CAS 2426-08-6) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Mixture versus substance nformation 11.2. Information on other hazar Endocrine disrupting properties Other information	2,3-epoxypropyl ether (CAS Evaluation of Carcinogeni 2,3-epoxypropyl ether This product is not expec Due to partial or complete Not applicable. Due to partial or complete No information available. rds This mixture does not cor to human health as asses 1907/2006, (EU) No 2017 0.1% by weight. Not available.	2B Possibly carcinogenic to humans. ted to cause reproductive or developmental effects. e lack of data the classification is not possible. e lack of data the classification is not possible.
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IE208R Version #: 06 Revision date: 08-04-2023 Issue date: 06-17-2014

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	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

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. 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.

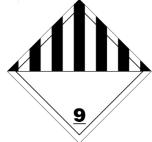
SECTION 14: Transport information

ADR

AD	र		
	14.1. UN number	UN3082	
	14.2. UN proper shipping	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product:	
	name	bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700))	
	14.3. Transport hazard class(es)		
	Class	9	
	Subsidiary risk	-	
	Label(s)	9	
	Hazard No. (ADR)	90	
	Tunnel restriction code	E	
	14.4. Packing group	III	
	14.5. Environmental hazards	Yes	
	14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.	
	for user		
RID			
	14.1. UN number	UN3082	
	14.2. UN proper shipping	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product:	
	name	bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700))	
	14.3. Transport hazard class	(es)	
	Class	9	
	Subsidiary risk	-	
	Label(s)	9	
	14.4. Packing group		
	14.5. Environmental hazards		
	14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.	
	for user		
AD	N		
	14.1. UN number	UN3082	
	14.2. UN proper shipping	Environmentally Hazardous Liquid, N.o.s. (reaction product: bisphenol-A-(epichlorhydrin); epoxy	
	name	resin (number average molecular weight ≤ 700))	
	14.3. Transport hazard class		
	Class	9	
	Subsidiary risk		
	Label(s)	9	
	14.4. Packing group		
	14.5. Environmental hazards		
	14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.	
	for user		

ΙΑΤΑ

IATA	
14.1. UN number	UN3082
14.2. UN proper shipping	Environmentally hazardous substance, liquid, n.o.s. (reaction product:
name	bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700))
14.3. Transport hazard class	(es)
Class	9
Subsidiary risk	-
14.4. Packing group	
14.5. Environmental hazards	Yes
ERG Code	9L
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	
14.1. UN number	UN3082
14.2. UN proper shipping	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product:
name	bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)), MARINE POLLUTANT
14.3. Transport hazard class	
Class	9
Subsidiary risk	- · · · · · · · · · · · · · · · · · · ·
14.4. Packing group	
14.5. Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
14.7. Maritime transport in bulk according to IMO instruments	Not established.
ADN; ADR; IATA; IMDG; RID	



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

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

Aluminium Oxide (CAS 1344-28-1)

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

UFI:

Austria: 1K15-71FY-G00N-EGFG Belgium: 1K15-71FY-G00N-EGFG Bulgaria: 1K15-71FY-G00N-EGFG Croatia: 1K15-71FY-G00N-EGFG Cyprus: 1K15-71FY-G00N-EGFG Czech Republic: 1K15-71FY-G00N-EGFG Denmark: 1K15-71FY-G00N-EGFG Estonia: 1K15-71FY-G00N-EGFG EU: 1K15-71FY-G00N-EGFG Finland: 1K15-71FY-G00N-EGFG France: 1K15-71FY-G00N-EGFG Germany: 1K15-71FY-G00N-EGFG Greece: 1K15-71FY-G00N-EGFG Hungary: 1K15-71FY-G00N-EGFG Iceland: 1K15-71FY-G00N-EGFG Ireland: 1K15-71FY-G00N-EGFG Italy: 1K15-71FY-G00N-EGFG Latvia: 1K15-71FY-G00N-EGFG Lithuania: 1K15-71FY-G00N-EGFG Luxembourg: 1K15-71FY-G00N-EGFG Malta: 1K15-71FY-G00N-EGFG Netherlands: 1K15-71FY-G00N-EGFG Norway: 1K15-71FY-G00N-EGFG Poland: 1K15-71FY-G00N-EGFG Portugal: 1K15-71FY-G00N-EGFG Romania: 1K15-71FY-G00N-EGFG Slovakia: 1K15-71FY-G00N-EGFG Slovenia: 1K15-71FY-G00N-EGFG Spain: 1K15-71FY-G00N-EGFG Sweden: 1K15-71FY-G00N-EGFG

Authorizations

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

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

butyl glycidyl ether; butyl 2,3-epoxypropyl ether (CAS 2426-08-6)

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.
Contains a substance whic toxic substances	ch is included on the TRGS 905 list of carcinogenic, germ cell mutagenic and reproductive

Aluminium Oxide (CAS 1344-28-1)	Faserstäube, anorganische (außer Asbest), Künstlich hergestellte
	anorganische einkristalline Fasern (Whisker) aus Aluminoxid

France regulations

France INRS Table of Occupational Diseases

Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers Maladies professionnelles provoquées par les résines (CAS 25085-99-8) reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700) (CAS 25068-38-6)

époxydiques et leurs constituants 51 Maladies professionnelles provoquées par les résines époxydiques et leurs constituants 51

Product registration number

i rouuci registration number	
Austria	UFI: 1K15-71FY-G00N-EGFG
Belgium	UFI: 1K15-71FY-G00N-EGFG
Czech Republic	UFI: 1K15-71FY-G00N-EGFG
Denmark	UFI: 1K15-71FY-G00N-EGFG
European Union	UFI: 1K15-71FY-G00N-EGFG
Finland	UFI: 1K15-71FY-G00N-EGFG
France	UFI: 1K15-71FY-G00N-EGFG
Germany	UFI: 1K15-71FY-G00N-EGFG
Greece	UFI: 1K15-71FY-G00N-EGFG
Hungary	UFI: 1K15-71FY-G00N-EGFG
Italy	UFI: 1K15-71FY-G00N-EGFG
Netherlands	UFI: 1K15-71FY-G00N-EGFG
Norway	UFI: 1K15-71FY-G00N-EGFG
Poland	UFI: 1K15-71FY-G00N-EGFG
Portugal	UFI: 1K15-71FY-G00N-EGFG
Slovakia	UFI: 1K15-71FY-G00N-EGFG
Slovenia	UFI: 1K15-71FY-G00N-EGFG
Spain	UFI: 1K15-71FY-G00N-EGFG
Sweden	UFI: 1K15-71FY-G00N-EGFG
Switzerland	UFI: 1K15-71FY-G00N-EGFG
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.

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	H226 Flammable liquid and vapor.
	H302 Harmful if swallowed.
	H302 Harman Swallowed. H311 Toxic in contact with skin.
	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.

Revision information Training information Disclaimer

- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Physical & Chemical Properties: Multiple Properties

Follow training instructions when handling this material.

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.