SAFETY DATA SHEET

Version #: 07 Issue date: 07-23-2019 Revision date: 07-26-2023 Supersedes date: 07-17-2023

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

1.1. Product identifier	
Trade name or designation of the mixture	Chockfast Black Hardener
Registration number	-
Synonyms	None.
SKU#	GP104H
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 th	e safety data sheet
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)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Health hazards		
Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Acute toxicity, dermal	Category 4	H312 - Harmful in contact with skin.
Skin corrosion/irritation	Category 1	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 3	H412 - Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Austria: 3SC0-60CW-H00J-FHXH Belgium: 3SC0-60CW-H00J-FHXH Bulgaria: 3SC0-60CW-H00J-FHXH Croatia: 3SC0-60CW-H00J-FHXH Cyprus: 3SC0-60CW-H00J-FHXH Czech Republic: 3SC0-60CW-H00J-FHXH Denmark: 3SC0-60CW-H00J-FHXH Estonia: 3SC0-60CW-H00J-FHXH EU: 3SC0-60CW-H00J-FHXH Finland: 3SC0-60CW-H00J-FHXH France: 3SC0-60CW-H00J-FHXH Germany: 3SC0-60CW-H00J-FHXH Greece: 3SC0-60CW-H00J-FHXH Hungary: 3SC0-60CW-H00J-FHXH Iceland: 3SC0-60CW-H00J-FHXH Ireland: 3SC0-60CW-H00J-FHXH Italy: 3SC0-60CW-H00J-FHXH Latvia: 3SC0-60CW-H00J-FHXH Lithuania: 3SC0-60CW-H00J-FHXH Luxembourg: 3SC0-60CW-H00J-FHXH Malta: 3SC0-60CW-H00J-FHXH Netherlands: 3SC0-60CW-H00J-FHXH Norway: 3SC0-60CW-H00J-FHXH Poland: 3SC0-60CW-H00J-FHXH Portugal: 3SC0-60CW-H00J-FHXH Romania: 3SC0-60CW-H00J-FHXH Slovakia: 3SC0-60CW-H00J-FHXH Slovenia: 3SC0-60CW-H00J-FHXH Spain: 3SC0-60CW-H00J-FHXH Sweden: 3SC0-60CW-H00J-FHXH

Contains:

Hazard pictograms

2,2'-iminodiethylamine; diethylenetriamine, 3,6-diazaoctanethylenediamin; triethylenetetramine, bisphenol A; 4,4'-isopropylidenediphenol



Signal word

Hazard statements	
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.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

Prevention	
P260	Do not breathe mist/vapors.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Response	
P330	Rinse mouth.
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.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
Storage	
P405	Store locked up.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information

68,75% of the mixture consists of component(s) of unknown acute oral toxicity. 7,81% of the mixture consists of component(s) of unknown acute dermal toxicity. 18,75% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
3,6-diazaoctanethylenediamin; triethylenetetramine	60 - 100	112-24-3 203-950-6	01-2119487919-13-0000	612-059-00-5	
Classification:	mg/kg bw),		mg/kg bw), Acute Tox. 4;H3′ , Eye Dam. 1;H318, Skin Ser		
2,2'-iminodiethylamine; diethylenetriamine	10 - 30	111-40-0 203-865-4	01-2119473793-27-0000	612-058-00-X	
Classification:			ng/kg bw), Acute Tox. 4;H312 , Eye Dam. 1;H318, Skin Ser		
bisphenol A; 4,4'-isopropylidenediphenol	10 - 30	80-05-7 201-245-8	01-2119457856-23-0000	604-030-00-0	#
Classification:		1;H318, Skin Sens. 1 Juatic Chronic 2;H41	;H317, Repr. 1B;H360F, ST 1	OT SE	

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent 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 measures

General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
4.1. Description of first aid meas	sures
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Chemical burns must be treated by a physician. 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	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and effects, both acute and delayed	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.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting 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 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, protection	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. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for	Should not be released into the environment. 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. Do not taste or swallow. 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

	hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Components	Туре	Value	Form
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	МАК	4 mg/m3	
		1 ppm	
bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	Ceiling	5 mg/m3	Inhalable fraction.
	MAK	2 mg/m3	Inhalable fraction.
Belgium. OEL. Exposure Limit Val Chemical agents, as amended	ues to Chemical Substances	at Work, Code of Well-being	at work, Book VI, Title 1 ·
	Туре	Value	
Components	Type	Value	
Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4,3 mg/m3	

Components	Туре	Value	
bisphenol A; 1,4'-isopropylidenediphenol CAS 80-05-7)	TWA	2 mg/m3	
Bulgaria. OELs. Ordinance No 13 (amended	on protection of workers against	risks of exposure to che	nical agents at work, as
Components	Туре	Value	Form
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4 mg/m3	
bisphenol A; 4,4'-isopropylidenediphenol CAS 80-05-7)	TWA	2 mg/m3	Inhalable fraction.
Croatia. OELs (GVI). Regulation or Biological Limit Values, Annex I (N		Exposure to Dangerous C	hemicals at Work, OELs an
Components	Туре	Value	Form
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	MAC	4,3 mg/m3	
,		1 ppm	
oisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	MAC	2 mg/m3	Inhalable fraction.
Cyprus. OELs. Control of factory a Components	atmosphere and dangerous subs Type	tances in factories regula Value	tion, PI 311/73, as amended
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, and o	
diethylenetriamine (CAS	TWA	4 mg/m3	
diethylenetriamine (CAS			
diethylenetriamine (CAS 111-40-0) Cyprus. OELs. Occupational Expo	TWA	4 mg/m3 1 ppm	h at Work (Chem. Agents)
diethylenetriamine (CAS 111-40-0) Cyprus. OELs. Occupational Expo Reg., Ann. 1, R.A.A. 268/2001, as a	TWA	4 mg/m3 1 ppm	h at Work (Chem. Agents) Form
diethylenetriamine (CAS 111-40-0) Cyprus. OELs. Occupational Expo Reg., Ann. 1, R.A.A. 268/2001, as a Components Disphenol A; 4,4'-isopropylidenediphenol	TWA osure Limit Values of Chemicals a amended)	4 mg/m3 1 ppm at Work (Safety and Healt	
diethylenetriamine (CAS 111-40-0) Cyprus. OELs. Occupational Expo Reg., Ann. 1, R.A.A. 268/2001, as a Components bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Czech Republic. Occupational exp	TWA osure Limit Values of Chemicals a amended) Type TWA Dosure limit values of chemicals a	4 mg/m3 1 ppm at Work (Safety and Healt Value 2 mg/m3	Form Inhalable fraction.
diethylenetriamine (CAS 111-40-0) Cyprus. OELs. Occupational Expo Reg., Ann. 1, R.A.A. 268/2001, as a Components bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney	TWA osure Limit Values of Chemicals a amended) Type TWA Dosure limit values of chemicals a	4 mg/m3 1 ppm at Work (Safety and Healt Value 2 mg/m3	Form Inhalable fraction.
diethylenetriamine (CAS 111-40-0) Cyprus. OELs. Occupational Expo Reg., Ann. 1, R.A.A. 268/2001, as a Components Disphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	TWA Desure Limit Values of Chemicals a amended) Type TWA Dosure limit values of chemicals a x 3, Part A, as amended)	4 mg/m3 1 ppm at Work (Safety and Healt Value 2 mg/m3 at work (Decree on protect	Form Inhalable fraction.
diethylenetriamine (CAS 111-40-0) Cyprus. OELs. Occupational Expo Reg., Ann. 1, R.A.A. 268/2001, as a Components Disphenol A; 4,4'-isopropylidenediphenol CAS 80-05-7) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	TWA Desure Limit Values of Chemicals a amended) Type TWA Dosure limit values of chemicals a x 3, Part A, as amended) Type	4 mg/m3 1 ppm at Work (Safety and Healt Value 2 mg/m3 at work (Decree on protect Value	Form Inhalable fraction.
diethylenetriamine (CAS 111-40-0) Cyprus. OELs. Occupational Expo Reg., Ann. 1, R.A.A. 268/2001, as a Components Disphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Disphenol A; 4,4'-isopropylidenediphenol	TWA Desure Limit Values of Chemicals a amended) Type TWA Dosure limit values of chemicals a x 3, Part A, as amended) Type Ceiling	4 mg/m3 1 ppm at Work (Safety and Health Value 2 mg/m3 at work (Decree on protect Value 8 mg/m3	Form Inhalable fraction.
diethylenetriamine (CAS 111-40-0) Cyprus. OELs. Occupational Expo Reg., Ann. 1, R.A.A. 268/2001, as a Components Disphenol A; 4,4'-isopropylidenediphenol CAS 80-05-7) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Disphenol A; 4,4'-isopropylidenediphenol	TWA Disure Limit Values of Chemicals a amended) Type TWA Dosure limit values of chemicals a x 3, Part A, as amended) Type Ceiling TWA	4 mg/m3 1 ppm at Work (Safety and Health Value 2 mg/m3 at work (Decree on protect Value 8 mg/m3 4 mg/m3	Form Inhalable fraction. ction of health at work, Form
diethylenetriamine (CAS 111-40-0) Cyprus. OELs. Occupational Expo Reg., Ann. 1, R.A.A. 268/2001, as a Components Disphenol A; I,4'-isopropylidenediphenol CAS 80-05-7) Czech Republic. Occupational exp 261/2007, Annex 2, Part A & Annex Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Disphenol A; I,4'-isopropylidenediphenol CAS 80-05-7) Denmark. Work Environment Authors	TWA TWA Desure Limit Values of Chemicals a mended) Type TWA Dosure limit values of chemicals a x 3, Part A, as amended) Type Ceiling TWA Ceiling TWA Ceiling TWA	4 mg/m3 1 ppm at Work (Safety and Health Value 2 mg/m3 at work (Decree on protect Value 8 mg/m3 4 mg/m3 5 mg/m3 2 mg/m3	Form Inhalable fraction. Etion of health at work, Form Dust/aerosol, inhalable. Dust/aerosol, inhalable.
diethylenetriamine (CAS 111-40-0) Cyprus. OELs. Occupational Expo Reg., Ann. 1, R.A.A. 268/2001, as a Components Disphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Annex Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Disphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Denmark. Work Environment Auth Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	TWA TWA Desure Limit Values of Chemicals a mended) Type TWA Dosure limit values of chemicals a x 3, Part A, as amended) Type Ceiling TWA Ceiling TWA Ceiling TWA Nority. Exposure Limits for Substa	4 mg/m3 1 ppm at Work (Safety and Health Value 2 mg/m3 at work (Decree on protect Value 8 mg/m3 4 mg/m3 5 mg/m3 2 mg/m3 ances & Materials, Annex	Form Inhalable fraction. Etion of health at work, Form Dust/aerosol, inhalable. Dust/aerosol, inhalable.
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Cyprus. OELs. Occupational Expo Reg., Ann. 1, R.A.A. 268/2001, as a Components bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Czech Republic. Occupational exp 361/2007, Annex 2, Part A & Anney Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Denmark. Work Environment Auth Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA TWA psure Limit Values of Chemicals a amended) Type TWA posure limit values of chemicals a x 3, Part A, as amended) Type Ceiling TWA Ceiling TWA Ceiling TWA Ceiling	4 mg/m3 1 ppm at Work (Safety and Health Value 2 mg/m3 at work (Decree on protect Value 8 mg/m3 4 mg/m3 5 mg/m3 2 mg/m3 ances & Materials, Annex Value	Form Inhalable fraction. Etion of health at work, Form Dust/aerosol, inhalable. Dust/aerosol, inhalable.

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended Components Type Value Form

components	Type	value	Tom
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	STEL	10 mg/m3	
		2 ppm	
	TWA	4,5 mg/m3	
		1 ppm	
3,6-diazaoctanethylenediam in; triethylenetetramine (CAS 112-24-3)	STEL	12 mg/m3	
	TWA	6 mg/m3	
		1 ppm	
bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	TWA	2 mg/m3	Respirable fraction.

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

Components	туре	value	
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	STEL	13 mg/m3	
		3 ppm	
	TWA	4,3 mg/m3	
		1 ppm	
bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	TWA	2 mg/m3	
France OFL a Occupational Expo	ours Limits on Drosprihad by	Art B 4412 149 of Labor Code, as amondo	4

France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-149 of Labor Code, as amended Components Type Value Form

Components	туре	Value	TOTIL
bisphenol A; 4,4'-isopropylidenedipheno (CAS 80-05-7)	VME	2 mg/m3	Inhalable dust.
France. Threshold Limit	Values (VLEP) for Occupational Expos	ure to Chemicals in France.	NRS ED 984
Components	Туре	Value	Form
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	VME	4 mg/m3	
Regulatory status:	Indicative limit (VL)		
0		1 ppm	
Regulatory status:	Indicative limit (VL)		
bisphenol A; 4,4'-isopropylidenedipheno (CAS 80-05-7)	VME	2 mg/m3	Inhalable dust.
Regulatory status:	Regulatory binding (VRC)		

Form Value Components Туре bisphenol A; TWA 5 mg/m3 Inhalable fraction. 4,4'-isopropylidenediphenol (CAS 80-05-7) Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace Components Value Form Type bisphenol A; AGW 5 mg/m3 Inhalable fraction. 4,4'-isopropylidenediphenol (CAS 80-05-7)

2,2'-iminodiethylamine;	Туре	Value	Form
diethylenetriamine (CAS 111-40-0)	TWA	4 mg/m3	
		1 ppm	
bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	TWA	2 mg/m3	Inhalable fraction.
Hungary. OELs. Decree on protect Components	ion of workers exposed to ch Type	nemical agents (5/2020. (II.6)), Value	Annex 1&2, as amended
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	STEL	8 mg/m3	
	TWA	4 mg/m3	
bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	TWA	2 mg/m3	
Iceland. OELs. Regulation 390/2009 Components	9 on Pollution Limits and Me Type	asures to Reduce Pollution at Value	t the Workplace, as amended Form
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4,5 mg/m3	
··· •••		1 ppm	
3,6-diazaoctanethylenediam in; triethylenetetramine (CAS 112-24-3)	TWA	6 mg/m3	
		1 ppm	
bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	TWA	2 mg/m3	Inhalable fraction.
Ireland. OELVs, Schedules 1 & 2, C	ode of Practice for Chemica	Agonts and Carcinogons Po	
Components	Туре	Value	gulations Form
Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)			
2,2'-iminodiethylamine; diethylenetriamine (CAS	Туре	Value	
2,2'-iminodiethylamine; diethylenetriamine (CAS	Туре	Value 4 mg/m3	
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	Type TWA TWA	Value 4 mg/m3 1 ppm	Form
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Italy. OELs (Legislative Decree n.8 ⁻¹	Type TWA TWA	Value 4 mg/m3 1 ppm	Form
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) bisphenol A; 4,4'-isopropylidenediphenol	Type TWA TWA 1, 9 April 2008), as amended	Value 4 mg/m3 1 ppm 2 mg/m3	Form
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Italy. OELs (Legislative Decree n.8 Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	Type TWA TWA 1, 9 April 2008), as amended Type	Value 4 mg/m3 1 ppm 2 mg/m3 Value	Form
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Italy. OELs (Legislative Decree n.8° Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Latvia. OELs. Occupational Expose	Type TWA TWA 1, 9 April 2008), as amended Type TWA TWA	Value 4 mg/m3 1 ppm 2 mg/m3 Value 1 ppm 2 mg/m3	Form Inhalable dust. Form Inhalable fraction.
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Italy. OELs (Legislative Decree n.8° Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Latvia. OELs. Occupational Expose 1), as amended	Type TWA TWA 1, 9 April 2008), as amended Type TWA TWA	Value 4 mg/m3 1 ppm 2 mg/m3 Value 1 ppm 2 mg/m3	Form Inhalable dust. Form Inhalable fraction.
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Italy. OELs (Legislative Decree n.8° Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Latvia. OELs. Occupational Expose 1), as amended Components bisphenol A; 4,4'-isopropylidenediphenol	Type TWA TWA 1, 9 April 2008), as amended Type TWA TWA TWA	Value 4 mg/m3 1 ppm 2 mg/m3 Value 1 ppm 2 mg/m3	Form Inhalable dust. Form Inhalable fraction. 325/ 2007, L.V. 80, Annex
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Italy. OELs (Legislative Decree n.8 Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) bisphenol A; 4,4'-isopropylidenediphenol	Type TWA TWA TWA 1, 9 April 2008), as amended Type TWA TWA TWA TWA TWA TWA	Value 4 mg/m3 1 ppm 2 mg/m3 Value 1 ppm 2 mg/m3 tances at Workplace (Reg. No Value 2 mg/m3	Form Inhalable dust. Form Inhalable fraction. S. 325/ 2007, L.V. 80, Annex Form Inhalable fraction.
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Italy. OELs (Legislative Decree n.8° Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Latvia. OELs. Occupational Expose 1), as amended Components bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) Listuania. OELs. Occupational Exp	Type TWA TWA TWA 1, 9 April 2008), as amended Type TWA TWA TWA TWA TWA TWA	Value 4 mg/m3 1 ppm 2 mg/m3 Value 1 ppm 2 mg/m3 tances at Workplace (Reg. No Value 2 mg/m3	Form Inhalable dust. Form Inhalable fraction. S. 325/ 2007, L.V. 80, Annex Form Inhalable fraction.

Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended

Components	Туре	Value	Form
		2 ppm	
	TWA	4,5 mg/m3	
		1 ppm	
3,6-diazaoctanethylenediam in; triethylenetetramine (CAS 112-24-3)	STEL	12 mg/m3	
		2 ppm	
	TWA	6 mg/m3	
		1 ppm	
bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	TWA	2 mg/m3	Respirable dust.

Luxembourg. OELs. Binding Occupational Exposure Limit Values (Annex I), G.D.R. of 14 November 2016, OJ Memorial A, n ° 235/2016, as amended

Components	Туре	Value	Form	
bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	TWA	2 mg/m3	Inhalable fraction.	

Malta. OELs. Protection of Health and Safety of Workers from Risks related to Chemical Agents at Work (L.N 227/2003 Schedules I and V), as amended

Components	Туре	Value	Form
bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	TWA	2 mg/m3	Inhalable fraction.
Netherlands, OELs per Annex XII	l of Working Conditions Regu	lation (Staatscourant no. 252.	29 December 2006), as

Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant no. 252, 29 December 2006), as amended

Components	Туре	Value	Form
bisphenol A;	TWA	2 mg/m3	Inhalable fraction.
4,4'-isopropylidenediphenol			

(CAS 80-05-7)

Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended

Components	Туре	Value	Form
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TLV	4 mg/m3	
		1 ppm	
3,6-diazaoctanethylenediam in; triethylenetetramine (CAS 112-24-3)	TLV	6 mg/m3	
		1 ppm	
bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	TLV	2 mg/m3	Inhalable fraction.

Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)

Components	Туре	Value Form	
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	STEL	12 mg/m3	
	TWA	4 mg/m3	
3,6-diazaoctanethylenediam in; triethylenetetramine (CAS 112-24-3)	STEL	3 mg/m3	
	TWA	1 mg/m3	

Components	Туре	Value	Form
isphenol A; ,4'-isopropylidenediphenol CAS 80-05-7)	TWA	2 mg/m3	Inhalable fraction.
Portugal. Decree-Law No. 24/2012, (Occupational Exposure Limi	t Values, Annex II, as amend	ed
Components	Туре	Value	Form
oisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	TWA	2 mg/m3	Inhalable fraction.
Portugal. VLEs. Norm on occupatio		ents (NP 1796-2014)	
Components	Туре	Value	
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	1 ppm	
Romania. OELs. Limit Values of Che	emical Agents at Workplace	(Regulation 1.218/2006, M.O	845, Annex 1, 3&4, as
amended) Components	Туре	Value	Form
•	-		
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	STEL	4 mg/m3	
		1 ppm	
	TWA	2 mg/m3	
		0,5 ppm	
3,6-diazaoctanethylenediam in; triethylenetetramine (CAS 112-24-3)	STEL	20 mg/m3	
		3,3 ppm	
	TWA	10 mg/m3	
		1,7 ppm	
bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	TWA	2 mg/m3	Gaseous and vapor, inhalable fraction
Slovakia. OELs. Maximum permissi	ble exposure limits for chem	nical factors in workplace air	(Regulation No 355/2006,
Annex 1, Table 1, as amended)	_		-
Components	Туре	Value	Form
bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	TWA	2 mg/m3	Inhalable fraction.
Slovenia. OELs. Occupational Expo		Workplace (Reg. on Protecti	on of Workers from Risks
due to Exp. to Chemicals at Work, A Components	Annex I), as amended Type	Value	Form
•			
bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)	TWA	2 mg/m3	Inhalable fraction.
Spain. OELs. INSST, Límites de Exp	osición Profesional Para Ag	jentes Químicos, Table 1-Val	ores Límites Ambientales
(VLAs)	Turce	Val	
Components	Туре	Value	
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4,3 mg/m3	
		1 ppm	
bisphenol A; 4,4'-isopropylidenediphenol	TWA	2 mg/m3	

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended Components Туре Value Form 2,2'-iminodiethylamine; STEL 10 mg/m3 diethylenetriamine (CAS 111-40-0) 2 ppm TWA 4,5 mg/m3 1 ppm 3,6-diazaoctanethylenediam STEL 12 mg/m3 in; triethylenetetramine (CAS 112-24-3) 2 ppm TWA 6 mg/m3 1 ppm 2 mg/m3 Inhalable dust. bisphenol A; TWA 4,4'-isopropylidenediphenol (CAS 80-05-7) Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte Form Components Type Value TWA 2,2'-iminodiethylamine; 4 mg/m3 diethylenetriamine (CAS 111-40-0) 1 ppm Inhalable fraction. bisphenol A; TWA 3 mg/m3 4,4'-isopropylidenediphenol (CAS 80-05-7) UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1 Components Туре Value 2,2'-iminodiethylamine; TWA 4.3 mg/m3 diethylenetriamine (CAS 111-40-0) 1 ppm bisphenol A; TWA 2 mg/m3 4,4'-isopropylidenediphenol (CAS 80-05-7) EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU Form Components Type Value bisphenol A; TWA 2 mg/m3 Inhalable fraction. 4,4'-isopropylidenediphenol (CAS 80-05-7) EU. OELs, Directive 2004/37/EC on carcinogen and mutagens from Annex III, Part A, as amended Components Value Form Type bisphenol A; TWA Inhalable fraction. 2 mg/m3 4,4'-isopropylidenediphenol (CAS 80-05-7)

Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Follow standard monitoring procedures.
Derived no effect levels (DNELs)	Not available.
Predicted no effect concentrations (PNECs)	Not available.

Exposure guidelines

Belgium OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)

Can be absorbed through the skin.

Cyprus OEL: Skin designation	on	
2,2'-iminodiethylamine; die (CAS 111-40-0)	-	Can be absorbed through the skin.
Denmark GV: Skin designation		
2,2'-iminodiethylamine; die (CAS 111-40-0) Estonia OELs: Skin designat		Can be absorbed through the skin.
2,2'-iminodiethylamine; die		Can be absorbed through the skin.
(CAS 111-40-0)		
Finland Exposure Limit Valu	-	
2,2'-iminodiethylamine; die (CAS 111-40-0)	-	Can be absorbed through the skin.
Greece OEL: Skin designation		
2,2'-iminodiethylamine; die (CAS 111-40-0)	-	Can be absorbed through the skin.
Hungary OELs: Skin designa		
2,2'-iminodiethylamine; die (CAS 111-40-0)	-	Can be absorbed through the skin.
Iceland OELs: Skin designat		
2,2'-iminodiethylamine; die (CAS 111-40-0)	-	Can be absorbed through the skin.
Ireland Exposure Limit Value	-	Can be absorbed through the skin
2,2'-iminodiethylamine; die (CAS 111-40-0) Italy OELs: Skin designation	-	Can be absorbed through the skin.
2,2'-iminodiethylamine; die (CAS 111-40-0)		Danger of cutaneous absorption
	lidenediphenol (CAS 80-05-7) ation	Danger of cutaneous absorption
2,2'-iminodiethylamine; die (CAS 111-40-0)	ethylenetriamine	Can be absorbed through the skin.
Norway Exposure Limit Valu	es: Skin designation	
2,2'-iminodiethylamine; die (CAS 111-40-0)	ethylenetriamine	Can be absorbed through the skin.
-	upatioinal Exposure: Skin des	signation
2,2'-iminodiethylamine; die (CAS 111-40-0)	-	Can be absorbed through the skin.
Romania OELs: Skin designa		
2,2'-iminodiethylamine; die (CAS 111-40-0) Spain OELs: Skin designatio	-	Can be absorbed through the skin.
2,2'-iminodiethylamine; die		Can be absorbed through the skin.
(CAS 111-40-0) Sweden Threshold Limit Val		Can be absorbed through the skin.
2,2'-iminodiethylamine; die (CAS 111-40-0)	-	Can be absorbed through the skin.
	ies at the Workplace: Skin de	signation
2,2'-iminodiethylamine; die (CAS 111-40-0)	-	Can be absorbed through the skin.
UK EH40 WEL: Skin designa	tion	
2,2'-iminodiethylamine; die (CAS 111-40-0)	ethylenetriamine	Can be absorbed through the skin.
8.2. Exposure controls		
Appropriate engineering controls	applicable, use process enclos maintain airborne levels below	Id be used. Ventilation rates should be matched to conditions. If sures, local exhaust ventilation, or other engineering controls to recommended exposure limits. If exposure limits have not been levels to an acceptable level. Eye wash facilities and emergency in handling this product.
Individual protection measures,	such as personal protective e	quipment
General information		ment as required. Personal protection equipment should be chosen ds and in discussion with the supplier of the personal protective
Eye/face protection	Wear safety glasses with side recommended.	shields (or goggles) and a face shield. Face shield is
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	Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.	
Environmental exposure controls	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	fishy
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	>390 °F (>198,89 °C)
Flammability	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	1 % estimated
Explosive limit - upper (%)	9,5 % estimated
Flash point	>201,0 °F (>93,9 °C)
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
рН	≤11,6
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	<75 %
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapor pressure	<0,1 mm Hg
Density and/or relative density	
Density	1,01 g/cm3
Vapor density	>1
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
Evaporation rate	<1
Specific gravity	1,01
SECTION 10: Stability and	d reactivity
10.1. Reactivity	Reacts violently with strong alkaline substances. This product may react with reducing agents.

10.1. Reactivity	Reacts violently with strong alkaline substances. This product may react with reducing agents.
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. Do not mix with other chemicals.
10.5. Incompatible materials	Strong acids. Bases. Reducing agents. Alkaline metals. Peroxides. Phenols.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicologica	al information	
General information	Occupational exposure to the subs	ance or mixture may cause adverse effects.
Information on likely routes of e	xposure	
Inhalation	May cause irritation to the respirato	ry system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns. Harmful	in contact with skin. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.	
Ingestion	Causes digestive tract burns. Harm	ful if swallowed.
Symptoms		skin damage. Causes serious eye damage. Symptoms may welling, and blurred vision. Permanent eye damage including
11.1. Information on hazard clas	ses as defined in Regulation (EC)	No 1272/2008
Acute toxicity	Harmful if inhaled. Harmful in conta	ct with skin. Harmful if swallowed.
Components	Species	Test Results
3,6-diazaoctanethylenediamin; trie	thylenetetramine (CAS 112-24-3)	
Acute		
Dermal		
Liquid		
LD50	Rat	1465 mg/kg
Oral		
Liquid LD50	Rat	4740
		1716 mg/kg
bisphenol A; 4,4'-isopropylidenedip	onenol (CAS 80-05-7)	
<u>Acute</u> Dermal		
LD50	Rabbit	3000 mg/kg
Oral	Rubbit	
LD50	Rat	3250 mg/kg
Skin corrosion/irritation	Causes severe skin burns and eye	damage.
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory sensitization	Due to partial or complete lack of d	ata the classification is not possible.
Skin sensitization	May cause an allergic skin reaction	
Germ cell mutagenicity	Due to partial or complete lack of d	ata the classification is not possible.
Carcinogenicity	Due to partial or complete lack of d	ata the classification is not possible.
Hungary. 26/2000 EüM Ordir (as amended)	nance on protection against and pr	eventing risk relating to exposure to carcinogens at work
bisphenol A; 4,4'-isopropy	/lidenediphenol (CAS 80-05-7)	
Reproductive toxicity		se reproductive or developmental effects.
Slovenia. OELs. Regulations (Official Gazette of the Repu		against risks due to exposure to chemicals while working
bisphenol A; 4,4'-isopropy	/lidenediphenol (CAS 80-05-7) Tox	ic for reproduction, Category 1B.
Specific target organ toxicity - single exposure	Due to partial or complete lack of d	ata the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of d	ata the classification is not possible.
Aspiration hazard	Due to partial or complete lack of d	ata the classification is not possible.
Mixture versus substance information	No information available.	
11.2. Information on other hazar	ds	
Endocrine disrupting properties	to human health as assessed in ac	substances having endocrine disrupting properties with respect cordance with the criteria set out in Regulations (EC) No d (EU) 2018/605, at a concentration equal to or greater than
Other information	Not available.	

SECTION 12: Ecological i	nformation
12.1. Toxicity	Harmful to aquatic life with long lasting effects. Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, 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) bisphenol A; 4,4'-isopropylider	nediphenol 3,32
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	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
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

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

ADI	ĸ	
	14.1. UN number	UN2735
	14.2. UN proper shipping	Amines, liquid, corrosive, n.o.s. (2,2'-iminodiethylamine; diethylenetriamine,
	name	3,6-diazaoctanethylenediamin; triethylenetetramine)
	14.3. Transport hazard class((es)
	Class	8
	Subsidiary risk	-
	Label(s)	8
	Hazard No. (ADR)	Not assigned.
	Tunnel restriction code	Not assigned.
	14.4. Packing group	Ш
	14.5. Environmental hazards	No.
	14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
	for user	
RID	1	
	14.1. UN number	UN2735
	14.2. UN proper shipping	Amines, liquid, corrosive, n.o.s. (2,2'-iminodiethylamine; diethylenetriamine,
	name	3,6-diazaoctanethylenediamin; triethylenetetramine)
	14.3. Transport hazard class((es)
	Class	8
	Subsidiary risk	-
	Label(s)	8
	14.4. Packing group	11
	14.5 Environmental hazards	No

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user

ADN	
14.1. UN number	UN2735
14.2. UN proper shipping	Amines, liquid, corrosive, n.o.s. (2,2'-iminodiethylamine; diethylenetriamine,
name	3,6-diazaoctanethylenediamin; triethylenetetramine)
14.3. Transport hazard class	(es)
Class	8
Subsidiary risk	-
Label(s)	8
14.4. Packing group	ll
14.5. Environmental hazards	No.
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
ΙΑΤΑ	
14.1. UN number	UN2735
14.2. UN proper shipping	Amines, liquid, corrosive, n.o.s. (2,2'-iminodiethylamine; diethylenetriamine,
name	3,6-diazaoctanethylenediamin; triethylenetetramine)
14.3. Transport hazard class	
Class	8
Subsidiary risk	-
14.4. Packing group	
14.5. Environmental hazards	
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
	Allowed with restrictions
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	Allowed with restrictions.
14.1. UN number	UN2735
14.2. UN proper shipping	Amines, liquid, corrosive, n.o.s. (2,2'-iminodiethylamine; diethylenetriamine,
name	3,6-diazaoctanethylenediamin; triethylenetetramine)
14.3. Transport hazard class	
Class	8
Subsidiary risk	-
14.4. Packing group	I
14.5. Environmental hazards	
Marine pollutant	No.
EmS	Not assigned.
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
14.7. Maritime transport in bulk	Not established.
according to IMO instruments	
ADN: ADR: IATA: IMDG: RID	

ADN; ADR; IATA; IMDG; RID



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

bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)

UFI:

Austria: 3SC0-60CW-H00J-FHXH Belgium: 3SC0-60CW-H00J-FHXH Bulgaria: 3SC0-60CW-H00J-FHXH Croatia: 3SC0-60CW-H00J-FHXH Cyprus: 3SC0-60CW-H00J-FHXH Czech Republic: 3SC0-60CW-H00J-FHXH Denmark: 3SC0-60CW-H00J-FHXH Estonia: 3SC0-60CW-H00J-FHXH EU: 3SC0-60CW-H00J-FHXH Finland: 3SC0-60CW-H00J-FHXH France: 3SC0-60CW-H00J-FHXH Germany: 3SC0-60CW-H00J-FHXH Greece: 3SC0-60CW-H00J-FHXH Hungary: 3SC0-60CW-H00J-FHXH Iceland: 3SC0-60CW-H00J-FHXH Ireland: 3SC0-60CW-H00J-FHXH Italy: 3SC0-60CW-H00J-FHXH Latvia: 3SC0-60CW-H00J-FHXH Lithuania: 3SC0-60CW-H00J-FHXH Luxembourg: 3SC0-60CW-H00J-FHXH Malta: 3SC0-60CW-H00J-FHXH Netherlands: 3SC0-60CW-H00J-FHXH Norway: 3SC0-60CW-H00J-FHXH Poland: 3SC0-60CW-H00J-FHXH Portugal: 3SC0-60CW-H00J-FHXH Romania: 3SC0-60CW-H00J-FHXH Slovakia: 3SC0-60CW-H00J-FHXH Slovenia: 3SC0-60CW-H00J-FHXH Spain: 3SC0-60CW-H00J-FHXH Sweden: 3SC0-60CW-H00J-FHXH

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

bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7) 66

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

bisphenol A; 4,4'-isopropylidenediphenol (CAS 80-05-7)

bisphenol A; 4,4'-isop	ropylidenediphenol (CAS 80-05-7)
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	
France INRS Table of Oc	ccupational Diseases
Not regulated.	
Product registration number	
Austria	UFI: 3SC0-60CW-H00J-FHXH
Belgium	UFI: 3SC0-60CW-H00J-FHXH
Czech Republic	UFI: 3SC0-60CW-H00J-FHXH
Denmark	UFI: 3SC0-60CW-H00J-FHXH

European Union	UFI: 3SC0-60CW-H00J-FHXH
Finland	UFI: 3SC0-60CW-H00J-FHXH
France	UFI: 3SC0-60CW-H00J-FHXH
Germany	UFI: 3SC0-60CW-H00J-FHXH
Greece	UFI: 3SC0-60CW-H00J-FHXH
Hungary	UFI: 3SC0-60CW-H00J-FHXH
Italy	UFI: 3SC0-60CW-H00J-FHXH
Netherlands	UFI: 3SC0-60CW-H00J-FHXH
Norway	UFI: 3SC0-60CW-H00J-FHXH
Poland	UFI: 3SC0-60CW-H00J-FHXH
Portugal	UFI: 3SC0-60CW-H00J-FHXH
Slovakia	UFI: 3SC0-60CW-H00J-FHXH
Slovenia	UFI: 3SC0-60CW-H00J-FHXH
Spain	UFI: 3SC0-60CW-H00J-FHXH
Sweden	UFI: 3SC0-60CW-H00J-FHXH
Switzerland	UFI: 3SC0-60CW-H00J-FHXH
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	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.
	H335 May cause respiratory irritation.
	H360F May damage fertility.
	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.