

SAFETY DATA SHEET

Version #: 05

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

1.1. Product identifier

Trade name or designation of the mixture Chockfast Red Versaflow Aggregate

Registration number -

Synonyms None.

SKU# GP141A

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Not available.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

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 number

General in EU 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 number

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

Carcinogenicity

Category 1A

H350 - May cause cancer.

2.2. Label elements

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

UFI:

Austria: GPE0-A0JN-800F-01RX
Belgium: GPE0-A0JN-800F-01RX
Bulgaria: GPE0-A0JN-800F-01RX
Croatia: GPE0-A0JN-800F-01RX
Cyprus: GPE0-A0JN-800F-01RX
Czech Republic: GPE0-A0JN-800F-01RX
Denmark: GPE0-A0JN-800F-01RX
Estonia: GPE0-A0JN-800F-01RX
EU: GPE0-A0JN-800F-01RX
Finland: GPE0-A0JN-800F-01RX
France: GPE0-A0JN-800F-01RX
Germany: GPE0-A0JN-800F-01RX
Greece: GPE0-A0JN-800F-01RX
Hungary: GPE0-A0JN-800F-01RX
Iceland: GPE0-A0JN-800F-01RX
Ireland: GPE0-A0JN-800F-01RX
Italy: GPE0-A0JN-800F-01RX
Latvia: GPE0-A0JN-800F-01RX
Lithuania: GPE0-A0JN-800F-01RX
Luxembourg: GPE0-A0JN-800F-01RX
Malta: GPE0-A0JN-800F-01RX
Netherlands: GPE0-A0JN-800F-01RX
Norway: GPE0-A0JN-800F-01RX
Poland: GPE0-A0JN-800F-01RX
Portugal: GPE0-A0JN-800F-01RX
Romania: GPE0-A0JN-800F-01RX
Slovakia: GPE0-A0JN-800F-01RX
Slovenia: GPE0-A0JN-800F-01RX
Spain: GPE0-A0JN-800F-01RX
Sweden: GPE0-A0JN-800F-01RX

Contains:

Crystalline SiO₂ (Quartz), IRON OXIDE

Hazard pictograms



Signal word

Danger

Hazard statements

H350

May cause cancer.

Precautionary statements

Prevention

P201

Obtain special instructions before use.

P202

Do not handle until all safety precautions have been read and understood.

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

P308 + P313

IF exposed or concerned: Get medical advice/attention.

Storage

P405

Store locked up.

Disposal

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information

99% of the mixture consists of component(s) of unknown acute inhalation toxicity. 99% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99% 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
Crystalline SiO ₂ (Quartz)	60 - 100	14808-60-7 238-878-4	-	-	#
Classification: Carc. 1A;H350					
IRON OXIDE	0,1 - 1	1309-37-1 215-168-2	-	-	
Classification: -					
Other components below reportable levels	< 1				

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.

SECTION 4: First aid measures

General information IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed

Coughing.

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. 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 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, protective equipment and emergency procedures

For non-emergency personnel Wear appropriate personal protective equipment.

For emergency responders Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. 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. Put material in suitable, covered, labeled containers.

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

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial 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

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

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	MAK	0,05 mg/m ³	Respirable dust.
IRON OXIDE (CAS 1309-37-1)	MAK	5 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
	STEL	20 mg/m ³	Inhalable fraction.
		10 mg/m ³	Respirable fraction.

Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m ³	Respirable dust.
IRON OXIDE (CAS 1309-37-1)	TWA	5 mg/m ³	Respirable fraction.

Bulgaria. OEL values of carcinogens and mutagens at work (Reg. 10/2003 on prot. from carcinogens and mutagens at work, Ann. 1), as amended

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m ³	Respirable fraction and dust

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

Components	Type	Value
IRON OXIDE (CAS 1309-37-1)	TWA	5 mg/m ³

Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	MAC	0,1 mg/m ³	
IRON OXIDE (CAS 1309-37-1)	MAC	5 mg/m ³	Fume.
		4 mg/m ³	Respirable dust.
		10 mg/m ³	Total dust.
	STEL	10 mg/m ³	Fume.

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

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m ³	Respirable dust.

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TLV	0,3 mg/m ³	Total
		0,1 mg/m ³	Respirable.
IRON OXIDE (CAS 1309-37-1)	TLV	3,5 mg/m ³	

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

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m ³	Fine dust, respiratory fraction
IRON OXIDE (CAS 1309-37-1)	TWA	3,5 mg/m ³	Fine dust, respiratory fraction

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

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,05 mg/m ³	Respirable.
IRON OXIDE (CAS 1309-37-1)	TWA	5 mg/m ³	Fume.

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

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	VME	0,1 mg/m ³	Respirable dust.

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	VME	0,1 mg/m ³	Respirable fraction.
Regulatory status: Regulatory binding (VRC)			
IRON OXIDE (CAS 1309-37-1)	VME	5 mg/m ³	Fume.
Regulatory status: Indicative limit (VL)			

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as updated

Components	Type	Value	Form
IRON OXIDE (CAS 1309-37-1)	TWA	4 mg/m ³	Inhalable dust.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
IRON OXIDE (CAS 1309-37-1)	AGW	10 mg/m ³	Inhalable fraction.
		1,25 mg/m ³	Respirable fraction.

Greece. OELs, Presidential Decree No. 307/1986, as amended

Components	Type	Value	Form
IRON OXIDE (CAS 1309-37-1)	STEL	10 mg/m ³	
	TWA	10 mg/m ³	

Hungary. OELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 1&2, as amended

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m ³	Respirable dust.
IRON OXIDE (CAS 1309-37-1)	TWA	4 mg/m ³	Respirable.

Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,3 mg/m ³	Total dust.
		0,1 mg/m ³	Respirable dust.
IRON OXIDE (CAS 1309-37-1)	TWA	3,5 mg/m ³	Respirable dust.

Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Agents and Carcinogens Regulations

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m ³	Respirable dust.
IRON OXIDE (CAS 1309-37-1)	TWA	10 mg/m ³	Fume.
		5 mg/m ³	Fume.
		4 mg/m ³	Respirable dust.
		10 mg/m ³	Total inhalable dust.

Italy. OELs (Legislative Decree n.81, 9 April 2008), as amended

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,025 mg/m ³	Respirable fraction.
IRON OXIDE (CAS 1309-37-1)	TWA	5 mg/m ³	Respirable fraction.

Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m ³	Respirable dust.

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

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m ³	Respirable fraction.
IRON OXIDE (CAS 1309-37-1)	TWA	3,5 mg/m ³	Respirable fraction.

Luxembourg. Chemical Substances Prohibited at Work (Annex III), G.D.R. of 14 November 2016, OJ Memorial A, n ° 235/2016, as amended

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m ³	Respirable dust.

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

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,075 mg/m ³	Respirable dust.

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	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TLV	0,3 mg/m ³	Total dust.
		0,05 mg/m ³	Respirable dust.
IRON OXIDE (CAS 1309-37-1)	TLV	3 mg/m ³	

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

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m ³	Respirable fraction.

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

Components	Type	Value	Form
IRON OXIDE (CAS 1309-37-1)	STEL	5 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
	TWA	5 mg/m ³	Inhalable fraction.
		2,5 mg/m ³	Respirable fraction.

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014)

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,025 mg/m ³	Respirable fraction.
IRON OXIDE (CAS 1309-37-1)	TWA	5 mg/m ³	Respirable fraction.

Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)

Components	Type	Value	Form
IRON OXIDE (CAS 1309-37-1)	STEL	10 mg/m ³	Dust and fume.
	TWA	5 mg/m ³	Dust and fume.

Slovakia. OELs for carcinogens and mutagens. Regulation No. 356/2006 on carcinogenic and mutagenic substances, as amended

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m ³	Respirable fraction.

Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)

Components	Type	Value	Form
IRON OXIDE (CAS 1309-37-1)	TWA	4 mg/m ³	Inhalable fume.
		1,5 mg/m ³	Respirable fume.

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended

Components	Type	Value	Form
IRON OXIDE (CAS 1309-37-1)	TWA	10 mg/m ³	Inhalable fraction.
		1,25 mg/m ³	Respirable fraction.

Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,05 mg/m ³	Respirable fraction.
IRON OXIDE (CAS 1309-37-1)	TWA	5 mg/m ³	Dust and fume.

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m ³	Respirable dust.
IRON OXIDE (CAS 1309-37-1)	TWA	3,5 mg/m ³	Respirable dust.

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,15 mg/m ³	Respirable fraction.
IRON OXIDE (CAS 1309-37-1)	TWA	3 mg/m ³	Respirable fraction.

UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m ³	Respirable.
IRON OXIDE (CAS 1309-37-1)	STEL	10 mg/m ³	Fume.
	TWA	5 mg/m ³	Fume.
		4 mg/m ³	Respirable.
		10 mg/m ³	Inhalable

EU. OELs, Directive 2004/37/EC on carcinogen and mutagens from Annex III, Part A, as amended

Components	Type	Value	Form
Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m ³	Respirable fraction and dust

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.

8.2. Exposure controls

Appropriate engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

- Other Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Observe any medical surveillance requirements. 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.

Environmental exposure controls Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Liquid.
Form	Liquid. Granular.
Color	Natural color
Odor	None.
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	Not available.
Flammability	Not applicable.
Flash point	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	Not available.

Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapor pressure	-0,01 hPa estimated
Density and/or relative density	
Density	5,24 g/cm ³ estimated
Vapor density	Not available.
Particle characteristics	Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes No relevant additional information available.

9.2.2. Other safety characteristics

 Specific gravity 5,25 estimated

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	Powerful oxidizers. Chlorine.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms Coughing.

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

Acute toxicity Not known.

Components	Species	Test Results
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IRON OXIDE (CAS 1309-37-1)

Acute

Oral

LD50	Rat	> 10000 mg/kg
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Skin corrosion/irritation Due to partial or complete lack of data the classification is not possible.

Serious eye damage/eye irritation Due to partial or complete lack of data the classification is not possible.

Respiratory sensitization Due to partial or complete lack of data the classification is not possible.

Skin sensitization Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline SiO ₂ (Quartz) (CAS 14808-60-7)	1 Carcinogenic to humans.
IRON OXIDE (CAS 1309-37-1)	3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - single exposure Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - repeated exposure Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Mixture versus substance information No information available.

11.2. Information on other hazards

Endocrine disrupting properties This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Based on available data, the classification criteria are not met for hazardous to the aquatic environment.

12.2. Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential No data available.

Partition coefficient n-octanol/water (log Kow) Not available.

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 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. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number Not regulated as dangerous goods.

14.2. UN proper shipping name Not regulated as dangerous goods.

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

Hazard No. (ADR) Not assigned.

Tunnel restriction code Not assigned.

14.4. Packing group -

14.5. Environmental hazards No.

14.6. Special precautions for user Not assigned.

RID

14.1. UN number Not regulated as dangerous goods.

14.2. UN proper shipping name Not regulated as dangerous goods.

14.3. Transport hazard class(es)**Class** Not assigned.**Subsidiary risk** -**14.4. Packing group** -**14.5. Environmental hazards** No.**14.6. Special precautions** Not assigned.

for user

ADN**14.1. UN number** Not regulated as dangerous goods.**14.2. UN proper shipping name** Not regulated as dangerous goods.**14.3. Transport hazard class(es)****Class** Not assigned.**Subsidiary risk** -**14.4. Packing group** -**14.5. Environmental hazards** No.**14.6. Special precautions** Not assigned.

for user

IATA**14.1. UN number** Not regulated as dangerous goods.**14.2. UN proper shipping name** Not regulated as dangerous goods.**14.3. Transport hazard class(es)****Class** Not assigned.**Subsidiary risk** -**14.4. Packing group** -**14.5. Environmental hazards** No.**14.6. Special precautions** Not assigned.

for user

IMDG**14.1. UN number** Not regulated as dangerous goods.**14.2. UN proper shipping name** Not regulated as dangerous goods.**14.3. Transport hazard class(es)****Class** Not assigned.**Subsidiary risk** -**14.4. Packing group** -**14.5. Environmental hazards****Marine pollutant** No.**EmS** Not assigned.**14.6. Special precautions** Not assigned.

for user

14.7. Maritime transport in bulk Not established.

according to IMO instruments

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

IRON OXIDE (CAS 1309-37-1)

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

Not listed.

UFI:

Austria: GPE0-A0JN-800F-01RX
Belgium: GPE0-A0JN-800F-01RX
Bulgaria: GPE0-A0JN-800F-01RX
Croatia: GPE0-A0JN-800F-01RX
Cyprus: GPE0-A0JN-800F-01RX
Czech Republic: GPE0-A0JN-800F-01RX
Denmark: GPE0-A0JN-800F-01RX
Estonia: GPE0-A0JN-800F-01RX
EU: GPE0-A0JN-800F-01RX
Finland: GPE0-A0JN-800F-01RX
France: GPE0-A0JN-800F-01RX
Germany: GPE0-A0JN-800F-01RX
Greece: GPE0-A0JN-800F-01RX
Hungary: GPE0-A0JN-800F-01RX
Iceland: GPE0-A0JN-800F-01RX
Ireland: GPE0-A0JN-800F-01RX
Italy: GPE0-A0JN-800F-01RX
Latvia: GPE0-A0JN-800F-01RX
Lithuania: GPE0-A0JN-800F-01RX
Luxembourg: GPE0-A0JN-800F-01RX
Malta: GPE0-A0JN-800F-01RX
Netherlands: GPE0-A0JN-800F-01RX
Norway: GPE0-A0JN-800F-01RX
Poland: GPE0-A0JN-800F-01RX
Portugal: GPE0-A0JN-800F-01RX
Romania: GPE0-A0JN-800F-01RX
Slovakia: GPE0-A0JN-800F-01RX
Slovenia: GPE0-A0JN-800F-01RX
Spain: GPE0-A0JN-800F-01RX
Sweden: GPE0-A0JN-800F-01RX

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

Crystalline SiO₂ (Quartz) (CAS 14808-60-7)

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

According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

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 on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in accordance with Directive 2004/37/EC, as amended.

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

IRON OXIDE (CAS 1309-37-1)

Anorganische Faserstäube, soweit nicht erwähnt (ausgenommen Gipsfasern und Wollastonitfasern)

France regulations

France INRS Table of Occupational Diseases

Crystalline SiO₂ (Quartz) (CAS 14808-60-7)

Affections consécutives à l'inhalation de poussières minérales renfermant de la silice cristalline (quartz, cristobalite, tridymite), des silicates cristallins (kaolin, talc), du graphite ou de la houille
25

Product registration number

Austria UFI: GPE0-A0JN-800F-01RX
Belgium UFI: GPE0-A0JN-800F-01RX
Czech Republic UFI: GPE0-A0JN-800F-01RX
Denmark UFI: GPE0-A0JN-800F-01RX

European Union	UFI: GPE0-A0JN-800F-01RX
Finland	UFI: GPE0-A0JN-800F-01RX
France	UFI: GPE0-A0JN-800F-01RX
Germany	UFI: GPE0-A0JN-800F-01RX
Greece	UFI: GPE0-A0JN-800F-01RX
Hungary	UFI: GPE0-A0JN-800F-01RX
Italy	UFI: GPE0-A0JN-800F-01RX
Netherlands	UFI: GPE0-A0JN-800F-01RX
Norway	UFI: GPE0-A0JN-800F-01RX
Poland	UFI: GPE0-A0JN-800F-01RX
Portugal	UFI: GPE0-A0JN-800F-01RX
Slovakia	UFI: GPE0-A0JN-800F-01RX
Slovenia	UFI: GPE0-A0JN-800F-01RX
Spain	UFI: GPE0-A0JN-800F-01RX
Sweden	UFI: GPE0-A0JN-800F-01RX
Switzerland	UFI: GPE0-A0JN-800F-01RX

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

H350 May cause cancer.

Revision information

None.

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.