

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product name SA20-21 – PART B POWDER
Product form Mixture

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

Intended use: Hardener (Crosslinker)

1.3 Details of the supplier of the safety data sheet

Manufacturer: Mix 14 Limited
Unit 112, Culham No1 site,
Station Road, Abingdon,
Oxfordshire, OX14 3DA, UK

Supplier: SATTO Solutions Ltd
Aerospace Logistics Centre
Fifth Avenue
Letchworth, Herts SG6 2TS, UK

Tel: +44 1462 413081
Email: info@satto.aero

1.4 Emergency telephone number

Emergency tel: +44 1462 413081 (business hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment – Acute Hazard, Category 1 H400

Hazardous to the aquatic environment – Chronic Hazard, Category 1 H410

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS09

Signal word (CLP) Warning

Hazard statements (CLP) H410 – Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) P273 – Avoid release to the environment

P391 – Collect spillage

P501 – Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3 Other hazards

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Not applicable.

3.2 Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
tetrabromobisphenol-A; 2,2', 6,6'-tetrabromo-4,4'-isopropylidenediphenol	(CAS-No.) 79-94-7 (EC-No.) 201-236-9 (EC Index-No.) 604-074-00-0 (REACH-no) 01-2119538800-42	10-30	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)
Aluminium hydroxide	(CAS-No.) 21645-51-2 (EC-No.) 244-492-7 (REACH-no) 01-2119529246-39	15	Not classified

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

First-aid measures after inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. In all cases of doubt, or if victim feels unwell seek medical attention.
First-aid measures after skin contact:	Wash with plenty of water. Wash contaminated clothing before reuse. Immediately remove/take off all contaminated clothing.
First-aid measures after eye contact:	Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately and plentifully with water, also under the eyelids, for at least 20 minutes. If eye irritation persists: get medical advice/attention.
First-aid measures after ingestion:	Do NOT induce vomiting. Rinse mouth thoroughly with water. In all cases of doubt, or when symptoms persist, seek medical advice.

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

Symptoms/injuries after inhalation:	Chronic exposure to high concentration of dust causes damage to lungs.
Symptoms/injuries after skin contact:	Effects of skin contact may include : redness. Skin irritation.
Symptoms/injuries after eye contact:	May cause slight temporary irritation.

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

None known. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:	dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂), water spray, sand, earth.
Unsuitable extinguishing media:	None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard:	None known
Explosion hazard:	None known
Hazardous decomposition products in case of fire:	Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. hydrogen bromide (HBr).

5.3 Advice for firefighters

Firefighting instructions:	Move undamaged containers from immediate hazard area if it can be done safely. Cool down the containers exposed to heat with a water spray.
Protective equipment for firefighters:	Wear proper protective equipment. In case of fire: Wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	Wear suitable protective clothing.
Emergency procedures	Avoid breathing dust, mist or spray. Provide adequate ventilation to minimize dust concentrations.
Measures in case of dust release	Mechanically ventilate the spillage area.

6.1.2. For emergency responders

Protective equipment	Wear protective gloves/protective clothing/eye protection/face protection. In case of fire: Wear self-contained breathing apparatus.
Emergency procedures	Evacuate area. Provide adequate ventilation to minimize dust concentrations. Avoid breathing dust, mist or spray.

6.2 Environmental precautions

Avoid release to the environment

6.3 Methods and material for containment and cleaning up

For containment	Avoid creating or spreading dust. Use clean-up methods that avoid dust generation (vacuum wet).
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Methods for cleaning up

Use clean-up methods that avoid dust generation (vacuum wet). Use approved industrial vacuum cleaner for removal. Collect all waste in suitable and labelled containers and dispose according to local legislation.

6.4 Reference to other sections

No additional information available.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Additional hazards when processed

Handle empty containers with care because residual vapours are flammable. In use, may form flammable vapour-air mixture.

Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use explosion-proof electrical/ventilating/lighting/.../ equipment.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Take care for general good hygiene and housekeeping.

7.3 Conditions for safe storage, including any incompatibilities

Technical measures

Ground equipment electrically. Use explosion-proof electrical equipment.

Storage conditions

Protect against direct sunlight. Store tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Acids. Strong alkalis. chemically active metals.

7.4 Specific end use(s)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Aluminium hydroxide (21645-51-2)		
Austria	MAK (mg/m ³)	5 mg/m ³
Austria	MAK Short time value (mg/m ³)	10 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	1,25 mg/m ³
Latvia	OEL TWA (mg/m ³)	6 mg/m ³
Lithuania	IPRV (mg/m ³)	6 mg/m ³
Poland	NDS (mg/m ³)	2,5 mg/m ³
Russian Federation	Local name	Алюминий тригидрооксид
Russian Federation	OEL TWA (mg/m ³)	6 mg/m ³
Russian Federation	Remark (RU)	4 класс опасности - умеренно опасное; а (аэрозоль); Ф (аэрозоли преимущественно фиброгенного действия)
Russian Federation	Regulatory reference	ГН 2.2.5.1313-03
Switzerland	MAK (mg/m ³)	3 mg/m ³
USA - ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³

8.2 Exposure controls

Appropriate engineering controls:

Provide adequate ventilation to minimize dust concentrations. Mechanical ventilation is recommended.

Personal protective equipment:

Gloves. Insufficient ventilation: wear respiratory protection. Protective goggles. Protective clothing.

Materials for protective clothing:

Wear full chemical protective clothing.

Hand protection:

Wear suitable gloves tested to EN 374.

Eye protection:

Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. DIN EN 166

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protective equipment symbol(s):

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties

Physical state	Solid
Appearance	Powder. Dust.
Colour	No data available
Odour	No data available
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Solubility	No data available
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	Not explosive as none of the components is classified as explosive or oxidizing.
Oxidising properties	Non oxidizing.
Explosive limits	No data available

9.2 Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY
10.1 Reactivity

Stable under normal conditions

10.2 Chemical stability

Stable at normal conditions

10.3 Possibility of hazardous reactions

Hazardous polymerisation may occur under certain conditions of storage or use

10.4 Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces – No smoking

10.5 Incompatible materials

Strong alkalis. Strong acid. Oxidizing agents, strong. Reducing agent

10.6 Hazardous decomposition products

carbon oxides. hydrogen bromide (HBr).

SECTION 11: TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT single exposure	Not classified
STOT repeated exposure	Not classified

tetrabromobisphenol-A; 2,2', 6,6'-tetrabromo-4,4'-isopropylidenediphenol (79-94-7)

NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight/day
Aspiration hazard	Not classified

SECTION 12: ECOLOGICAL INFORMATION
12.1 Toxicity

Acute aquatic toxicity	Very toxic to aquatic life.
Chronic aquatic toxicity	Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability
tetrabromobisphenol-A; 2,2', 6,6'-tetrabromo-4,4'-isopropylidenediphenol (79-94-7)

Persistence and degradability	Not readily biodegradable
Biodegradation	0 % 14 days

12.3 Bioaccumulative potential
tetrabromobisphenol-A; 2,2', 6,6'-tetrabromo-4,4'-isopropylidenediphenol (79-94-7)

BCF fish 1	150 Pimephales promelas (Fat-head Minnow)
Log Pow	5,903

12.4 Mobility in soil

No additional information available

12.5 Results of PBT and vPvB assessment
tetrabromobisphenol-A; 2,2', 6,6'-tetrabromo-4,4'-isopropylidenediphenol (79-94-7)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6 Other adverse effects

No additional information available







SECTION 13: DISPOSAL CONSIDERATIONS
13.1 Toxicity

Regional legislation (waste)	Dispose of this material and its container to hazardous or special waste collection point.
Waste treatment methods	Avoid release to the environment.
Product/Packaging disposal recommendations	This material and its container must be disposed of in a safe manner. Consult the appropriate authorities about waste disposal.


SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

	ADR	IMDG	IATA	AND	RID
14.1 UN number					
	3077	Not applicable	Not applicable	Not applicable	Not applicable

14.2 UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Not applicable	Not applicable	Not applicable	Not applicable
Transport document description				
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (E)	Not applicable	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)				
9	Not applicable	Not applicable	Not applicable	Not applicable
 				
14.4 Packing group				
III	Not applicable	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes

No supplementary information available

14.6 Special precautions for user	
Overland transport	
Classification code (ADR)	M7
Special provisions (ADR)	274, 335, 601
Limited quantities (ADR)	5kg
Excepted quantities (ADR)	E1
Packing instructions (ADR)	P002, IBC08, LP02, R001
Special packing provisions (ADR)	PP12, B3
Mixed packing provisions (ADR)	MP10
Portable tank and bulk container instructions (ADR)	T1, BK1, BK2
Portable tank and bulk container special provisions (ADR)	TP33
Tank code (ADR)	SGAV, LGBV
Vehicle for tank carriage	AT
Transport category (ADR)	3
Special provisions for carriage - Packages (ADR)	V13
Special provisions for carriage - Bulk (ADR)	VV1
Special provisions for carriage - Loading, unloading and handling (ADR)	CV13
Hazard identification number (Kemler No.)	90
Orange plates	
Tunnel restriction code (ADR)	E
EAC code	2Z
Transport by Sea	
MFAG-No	171

Air transport
No data available
Inland waterway transport
No data available
Rail transport
No data available

14.7 Other adverse effects

No additional information available

SECTION 15: REGULATORY INFORMATION

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National Regulations

Germany

Reference to AwSV	Water hazard class (WGK) 2, significant hazard to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	None of the components are listed
SZW-lijst van mutagene stoffen	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	None of the components are listed

15.2 Chemical safety assessment

For this substance a chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

Other information It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product. Such information is actually to the best of our knowledge and believes accurate as reliable.

Full text of H- and EUH-statements	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:	
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product