

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Product name : SA20-21: POWDER

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Use of the substance/mixture : Hardener (Crosslinker)

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet**Manufacturer:**

Mix 14 Ltd
Aerospace Logistic Centre
SG62TS Herts - United Kingdom
T 01462 686300

Supplier:

SATTO solutions Ltd.
SG62TS Herts - United Kingdom
T 01462 686300
email: info@satto.aero

1.4. Emergency telephone number

Emergency number : 01462 686300
(business hours)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Aquatic Acute 1 H400
Aquatic Chronic 1 H410
M=1
Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

N; R50/53
Full text of R-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.

2.3. Other hazards

No additional information available

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according to Regulation (EC) No. 453/2010

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
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	N; R50/53
Aluminium hydroxide	(CAS No) 21645-51-2 (EC no) 244-492-7 (REACH-no) 01-2119529246-39	15	Not classified

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Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove 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 soap and water. Wash contaminated clothing before reuse. Remove/Take off immediately 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 immediately and drink plenty of water. Do not give an unconscious person anything to drink. 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.
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- 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).
- 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 : Minimize generation of dust.
- Precautions for safe handling : Provide adequate ventilation. Avoid creating or spreading dust. Where excessive dust may result, wear approved mask.
- Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practices.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a cool dry place. Keep container tightly closed.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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 EN374.
- 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.

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 (butyl acetate=1) : No data available

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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 under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur under normal temperatures and pressures.

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 : Not classified

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

LD50 oral rat	> 2000 mg/kg
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LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 0,5 mg/l/4h
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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

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (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
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Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

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tetrabromobisphenol-A, 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (79-94-7)	
LC50 fishes 1	0,71 mg/l
EC50 Daphnia 1	0,96 mg/l

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

tetrabromobisphenol-A, 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (79-94-7)	
Log Koc	5,62

12.5. Results of PBT and vPvB assessment

Component	
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. Waste treatment methods

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.
Waste 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

14.1. UN number

UN-No. : 3077

14.2. UN proper shipping name

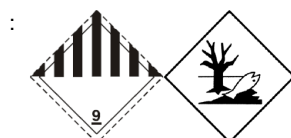
Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3. Transport hazard class(es)

All modes

Transport hazard class(es) (ADR) : 9

Hazard labels (ADR) : 9



14.4. Packing group

Packing group : III

14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : No

Other information : No supplementary information available

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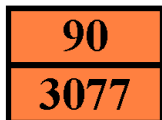
Safety Data Sheet

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14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : M7
Special provisions (ADR) : 274, 335, 601
Limited quantities (ADR) : 5kg
Excepted quantities (ADR) : E1
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 90
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : 2Z

14.6.2. Transport by sea

Limited quantities (IMDG) : 5 Kg
Excepted quantities (IMDG) : E1
EmS-No (IMDG) : F-A, S-F

14.6.3. Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA packing instructions (IATA) : 956
CAO packing instructions (IATA) : 956

14.6.4. Inland waterway transport

Transport regulations (ADN) : Subject to the provisions
Dangers (ADN) : 9+F

14.6.5. Rail transport

Classification code (RID) : M7
Special provision (RID) : 274, 335, 601
Limited quantities (RID) : 5 Kg
Excepted quantities (RID) : E1
Carriage prohibited (RID) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
Contains no substance on the REACH candidate list

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

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

Full text of R-, H- and EUH-phrases:

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

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R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N	Dangerous for the environment

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