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

1.1 Product identifier

Trade name : NANOSTRIP

Product code : M20001_109177290000_917729

REACH Registration Number : 01-2119969649-13-0000

Substance name : Reaction mass of sulfuric acid, hydrogen peroxide and perox-

omonosulfuric acid

EC-No. : 701-127-0

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

Use of the Sub-

stance/Mixture

: Oxidizing agents

Recommended restrictions

on use

Not applicable

1.3 Details of the supplier of the safety data sheet

: CMC Materials UPC Limited Company

> **Amber Business Centre** Alfreton Derbyshire DE55 4DA Riddings, UK

Telephone : +44 (0)1773 844200

E-mail address of person

responsible for the SDS

: fepc.sdscoordinator@fujifilm.com

1.4 Emergency telephone number

CHEMTREC: +(44)-870-8200418

CHEMTREC International +1-703-741-5970

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Oxidizing liquids, Category 1 H271: May cause fire or explosion; strong oxidizer.

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Corrosive to metals, Category 1 H290: May be corrosive to metals.

Skin corrosion, Sub-category 1A H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms





Signal word : Danger

Hazard statements : H271 May cause fire or explosion; strong oxidizer.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible

materials.

P260 Do not breathe mist or vapours.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P371 + P380 + P375 In case of major fire and large quanti-

ties: Evacuate area. Fight fire remotely due to the

risk of explosion.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : Reaction mass of sulfuric acid, hydrogen peroxide and perox-

omonosulfuric acid

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EC-No. : 701-127-0

Components

Chemical name	CAS-No.	Concentration (% w/w)
	EC-No.	
Reaction mass of sulfuric	Not Assigned	>= 90 - <= 100
acid, hydrogen peroxide and	701-127-0	
peroxomonosulfuric acid		

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

Protection of first-aiders : First Aid responders should pay attention to self-protection,

and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

If inhaled : If inhaled, remove to fresh air.

If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

In case of skin contact : In case of contact, immediately flush skin with plenty of water

for at least 15 minutes while removing contaminated clothing

and shoes.

Get medical attention immediately. Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Get medical attention immediately.

If swallowed, DO NOT induce vomiting.

If vomiting occurs have person lean forward.

Call a physician or poison control centre immediately.

Rinse mouth thoroughly with water.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : The following symptoms may occur:

Corrosion Eye damage Blindness

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Swelling of tissue

Redness Blurred vision tearing

Symptoms may be delayed.

Risks : Causes digestive tract burns.

Causes serious eye damage.

Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry powder

Foam

Carbon dioxide (CO2)

Unsuitable extinguishing

media

Water

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: Exposure to combustion products may be a hazard to health.

Container may explode if heated.

Hazardous combustion prod: :

ucts

Sulphur oxides

5.3 Advice for firefighters

Special protective equipment :

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Fight fire remotely due to the risk of explosion.

Remove undamaged containers from fire area if it is safe to do

. -

Evacuate area.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.

Only trained personnel should re-enter the area.

Remove all sources of ignition. Use personal protective equipment.

Follow safe handling advice (see section 7) and personal pro-

tective equipment recommendations (see section 8).

6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Non-sparking tools should be used.

Soak up with inert absorbent material.

Flush with water.

Suppress (knock down) gases/vapours/mists with a water

spray jet.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust

ventilation.

If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventila-

tion.

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Advice on safe handling : Do not get on skin or clothing.

Do not breathe mist or vapours.

Do not swallow. Do not get in eyes.

Wash skin thoroughly after handling.

Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-

sessment

Keep container tightly closed.

Keep away from water.

Keep away from metals. Store in original container or corro-

sive resistant and/or lined container.

Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

Keep away from clothing and other combustible materials. Take precautionary measures against static discharges.

Keep away from combustible material. Keep only in original packaging.

Take care to prevent spills, waste and minimize release to the

environment.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye

flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami-

nated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Keep away from direct sunlight. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

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Store in original container. Reacts with many metals to liberate hydrogen gas which can form explosive mixtures with air. Hydrogen, a highly flammable gas, can accumulate to explosive concentrations inside drums, or any types of steel containers or tanks upon storage.

Advice on common storage : Do not store with the following product types:

Strong oxidizing agents

Self-reactive substances and mixtures

Organic peroxides Flammable liquids Flammable solids Pyrophoric liquids Pyrophoric solids

Self-heating substances and mixtures

Substances and mixtures, which in contact with water, emit

flammable gases

Aerosol cans and lighters

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Explosives Gases

Very acutely toxic substances and mixtures Acutely toxic substances and mixtures Substances and mixtures with chronic toxicity

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
Reaction mass of sulfuric acid, hydrogen peroxide and peroxomonosulfuric acid	Workers	Inhalation	Long-term local effects	0.04 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	0.02 mg/m3

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.

If sufficient ventilation is unavailable, use with local exhaust ventilation.

If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.

Personal protective equipment

Eye/face protection : Wear the following personal protective equipment:

Chemical resistant goggles must be worn. If splashes are likely to occur, wear:

Face-shield

Equipment should conform to BS EN 166

Hand protection

Material : butyl-rubber
Break through time : > 480 min
Glove thickness : 0.35 mm

Directive : Equipment should conform to BS EN 374

Material : Neoprene gloves

Break through time : > 480 min

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Glove thickness : 0.45 mm

Directive : Equipment should conform to BS EN 374

Remarks : Choose gloves to protect hands against chemicals depending

on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical re-

sistance data and an assessment of the local exposure poten-

tial.

Wear the following personal protective equipment:

If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic pro-

tective clothing.

Skin contact must be avoided by using impervious protective

clothing (gloves, aprons, boots, etc).

Respiratory protection : If adequate local exhaust ventilation is not available or expo-

sure assessment demonstrates exposures outside the rec-

ommended guidelines, use respiratory protection. Equipment should conform to BS EN 14387

Filter type : Acidic gas/vapour type (E)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : slight, acidic

Odour Threshold : No data available

pH : <1

Melting point/freezing point : < -20 °C

Initial boiling point and boiling :

range

68.5 °C

Flash point : No data available, Heating may cause an explosion.

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

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Upper explosion limit / Upper :

flammability limit

No data available

Lower explosion limit / Lower :

flammability limit

No data available

Vapour pressure : > 0.31 Pa (25 °C)

Relative vapour density : > 1

Relative density : 1.81 - 1.82

Density : 1.84 g/cm³ (20 °C)

Solubility(ies)

Water solubility : No data available, Reacts with water.

Partition coefficient: n-

octanol/water

No data available

Inorganic compound

Auto-ignition temperature : No data available

Decomposition temperature : >= 68.5 °C

Viscosity

Viscosity, dynamic : 12.717 mPa.s (20 °C)

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is classified as oxidizing with the

category 1.

9.2 Other information

Flammability (liquids) : Sustains combustion

Metal corrosion rate : Corrosive to metals

Particle size : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

May cause fire or explosion; strong oxidizer.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

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Hazardous reactions : Exposure to metals, combustible or organic materials can

cause a violent reaction or ignition.

Reacts with water.

May cause fire or explosion; strong oxidizer.

May be corrosive to metals.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Accelerators, strong acids and bases, heavy metals and

heavy metal salts, reducing agents

Bases

Flammable materials Organic materials

Water

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of : Inhalation

exposure Skin contact

Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Causes severe burns.

Product:

Result : Corrosive after 3 minutes or less of exposure

Components:

Reaction mass of sulfuric acid, hydrogen peroxide and peroxomonosulfuric acid:

Result : Corrosive after 3 minutes or less of exposure

Remarks : Based on extreme pH

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Reaction mass of sulfuric acid, hydrogen peroxide and peroxomonosulfuric acid:

Result : Irreversible effects on the eye

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Remarks : Based on skin corrosivity.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Reaction mass of sulfuric acid, hydrogen peroxide and peroxomonosulfuric acid:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 16 - 28 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Test substance: Neutralised product Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Test substance: Neutralised product Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): >= 100

mg/l

Exposure time: 72 h

Test substance: Neutralised product Method: OECD Test Guideline 201

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Toxicity to microorganisms : NOEC (activated sludge): 180 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Toxicity to fish (Chronic tox-

icity)

NOEC: 25 µg/l

Exposure time: 65 d

Species: Jordanella floridae

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0.15 mg/l

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Other adverse effects

Product:

Endocrine disrupting poten-

tial

This substance/mixture does not contain components considered to have endocrine disrupting properties for environment

according to UK REACH Article 57(f).

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

According to the European Waste Catalogue, Waste Codes

are not product specific, but application specific.

Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities.

Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

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SECTION 14: Transport information

14.1 UN number

ADN : UN 3098
ADR : UN 3098
RID : UN 3098
IMDG : UN 3098
IATA (Cargo) : UN 3098
IATA (Passenger) : UN 3098

Not permitted for transport

14.2 UN proper shipping name

ADN : OXIDIZING LIQUID, CORROSIVE, N.O.S.

(Reaction mass of sulfuric acid, hydrogen peroxide and

peroxomonosulfuric acid)

ADR : OXIDIZING LIQUID, CORROSIVE, N.O.S.

(Reaction mass of sulfuric acid, hydrogen peroxide and

peroxomonosulfuric acid)

RID : OXIDIZING LIQUID, CORROSIVE, N.O.S.

(Reaction mass of sulfuric acid, hydrogen peroxide and

peroxomonosulfuric acid)

IMDG : OXIDIZING LIQUID, CORROSIVE, N.O.S.

(Reaction mass of sulfuric acid, hydrogen peroxide and

peroxomonosulfuric acid)

IATA (Cargo) : Oxidizing liquid, corrosive, n.o.s.

(Reaction mass of sulfuric acid, hydrogen peroxide and

peroxomonosulfuric acid)

IATA (Passenger) : OXIDIZING LIQUID, CORROSIVE, N.O.S.

Not permitted for transport

14.3 Transport hazard class(es)

		Class	Subsidiary risks
ADN	:	5.1	8
ADR	:	5.1	8
RID	:	5.1	8
IMDG	:	5.1	8
IATA (Cargo)	:	5.1	8
1474 (0		N	

IATA (Passenger) : Not permitted for transport

14.4 Packing group

ADN

Packing group : I

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Classification Code : OC1 Labels : 5.1 (8)

ADR

Packing group : I
Classification Code : OC1
Labels : 5.1 (8)
Tunnel restriction code : (E)

RID

Packing group : I
Classification Code : OC1
Hazard Identification Number : 558
Labels : 5.1 (8)

IMDG

Packing group : I
Labels : 5.1 (8)
EmS Code : F-A, S-Q

IATA (Cargo)

Packing instruction (cargo :

aircraft)

Packing group : I

Labels : Oxidizer, Corrosive

IATA (Passenger) : Not permitted for transport

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14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

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UK REACH List of restrictions (Annex 17) : Conditions of restriction for the fol-

lowing entries should be considered:

Number on list 3

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Brit-

ain)

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

UK REACH List of substances subject to authorisation

(Annex XIV)

Not applicable

GB Export and import of hazardous chemicals - Prior

Informed Consent (PIC) Regulation

Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH)

Quantity 1

Quantity 2

200 t

P8 OXIDIZING LIQUIDS AND 50 t

SOLIDS

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information

The information in this SDS is based on currently available information. This SDS does not provide any guarantees as to the quality and safety of the product. The information is provided as general information for safe handling of the product and the SDS applies to normal use of the product. The responsibility for use of the product in a special way which differs from the normal use lies with the user who would take suitable safety measures.

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical

lines.

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Full text of other 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; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population: LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose): MARPOL - International Convention for the Prevention of Pollution from Ships: n.o.s. - Not Otherwise Specified: NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to : compile the Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

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GB / EN

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

CMC MATERIALS

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