



PRODUCT: REOFOS 95

(RE95) REVISION: 2 DATED: 31/01/13

PAGE 1 OF 6

PRODUCT SPECIFICATION

Product Name	Reofos 95
Alternative Name	Triarylphosphates Isopropylated
Specification Reference	RE95/1 (07/10)

SALES SPECIFICATION

Characteristics	Limits
Colour (Hazen)	75 maximum
Specific Gravity at 20/20°C	1.1310 – 1.1420
Total Acid Number	
Colourimetric (mgKOH/g)	0.10 maximum
Water Content (% w/w)	0.10 maximum
Appearance	Clear liquid, no visible contamination

NOTES

Exclusion of Liability

Information contained in this publication is accurate to the best of the knowledge and belief of Tennants.

Any information or advice obtained from Tennants otherwise than by means of this publication and whether relating to Tennants materials or other materials, is also given in good faith. However, it remains at all times the responsibility of the customer to ensure that Tennants materials are suitable for the particular purpose intended.

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Health and Safety

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on the handling precautions and emergency procedures. This must be consulted fully before handling, storage and use.



PRODUCT: REOFOS 95

(RE95) REVISION: 2 DATED: 31/01/13

PAGE 2 OF 6

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product Identifier

Product Name REOFOS 95

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

Identified use(s) Flame retardant Process Additive

1.3 Details of the supplier of the safety data sheet

Tennants Distribution Limited
Hazelbottom Road
Cheetham
Manchester
M8 0GR
Tel: 44(0)161 205 4454
Fax: 44(0) 161 203 4298
Email: msds@tennantsdistribution.com

1.4 Emergency telephone number

Tel: 44(0)844 335 0001 (24 hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation 1272/2008 (CLP)

Physical and Chemical Hazards: Not classified
Hazards
Human health: Skin Sens. 1-H317, Repr. 2 – H361f, SOT Rep 2 –H373
Environmental: Aquatic Chronic 4- H413

2.1.2 EEC Directive 67/548/EEC & Directive 1999/45/EC

Xn; R48/22, Repr. Cat 3; R62, R43

2.2 Label elements

2.2.1 According to Regulation (EC) No. 1272/2008 (CLP).

Contains Triarylphosphate Isopropylated

Hazard Pictogram



Signal word(s) Warning.

Hazard statement(s)

H317: May cause an allergic skin reaction.
H361f: Suspected of damaging fertility.
H373: May cause damage to organs Liver, Glands through prolonged or repeated exposure if swallowed.
H413: May cause long lasting harmful effects to aquatic life.

Precautionary statement(s)

P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release into the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection
P281: Use personal protective equipment as required
P302+P352: IF ON SKIN: Wash with plenty of water
P308+P313: IF exposed or concerned: Get medical advice/attention.
P363: Wash contaminated clothing before reuse.

2.3 Other hazards

Not classified as PBT or vPvB by current EU criteria



PRODUCT: REOFOS 95

(RE95) REVISION: 2 DATED: 31/01/13

PAGE 3 OF 6

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	CAS No	EC No	Classification (EC 1272/2008)	Classification (67/548/EEC)	Content
Triarylphosphate Isopropylated	68937-41-7	273-066-3	Not classified	Repr. Cat. 3; R62,R63	50-100%
Triphenyl Phosphate	115-86-6	204-112-2	Aquatic Acute 1 -H400 Aquatic Chronic 1-H410	N; R50/53	5-10%

The full Text for all R-phrases and Hazard Statements are Displayed in Section 16.

Composition Comments

The data shown are in accordance with the latest EC Directives.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Get medical attention.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

Ingestion

Provide rest, warmth and fresh air. Immediately rinse mouth and drink plenty of water (200-300ml) Get medical attention

4.2 Most important symptoms and effects, both acute and delayed

Ingestion

May cause stomach pain and vomiting

Skin contact

Prolonged skin contact may cause redness and irritation.

4.3 Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2 Special hazards arising from the substance or mixture

Specific hazards: Oxides of: Carbon. Phosphorus

5.3 Advice for fire-fighters

Protect equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4 Reference to other sections

Wear protective clothing as described in section 8 of this safety data sheet..

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid spilling, skin and eye contact. Provide good ventilation

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Keep in original container.

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.



PRODUCT: REOFOS 95

(RE95) REVISION: 2 DATED: 31/01/13

PAGE 4 OF 6

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Name	STD	TWA- 8 Hrs	STEL- 15mins	Notes
Triphenyl Phosphate	WEL		3 mg/m ³	6 mg/m ³

Ingredient Comments
WEL= Workplace Exposure Limits

8.2 Exposure controls

Protective Equipment.



Respiratory Equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Eye protection

Wear approved safety goggles

Hand protection

Butyl rubber gloves are recommended.

Other Protection

Wear rubber apron. Wear rubber footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Odourless
Solubility	Insoluble in water
Boiling point/boiling range	220-270°C
Melting point	-40°C
Vapour density(air=1)	>1
Flash point	257°C PM Closed cup

9.2 Other information Not determined

10. STABILITY AND REACTIVITY

10.1 Reactivity

No specific reactivity hazards associated with this product.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Not determined

10.4 Conditions to avoid

Avoid excessive heat for prolonged periods of time.

10.5 Incompatible materials

Materials to avoid

Not determined

10.6 Hazardous decomposition products

Oxides of: Carbon Phosphorus

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Other Health Effects

Toxic to Reproductive Health Category 3

Acute Toxicity (Oral LD50) 5000 mg/kg Rat

Acute Toxicity (Dermal LD50) >2000 mg/kg Rat

Inhalation

May cause irritation to the respiratory system.

Ingestion

Gastrointestinal symptoms, including upset stomach.

Skin contact

May cause sensitisation by skin contact.



PRODUCT: REOFOS 95

(RE95) REVISION: 2 DATED: 31/01/13

PAGE 5 OF 6

Eye contact Irritating to eyes.
Target organs Glands Liver
Specific effects Contain a substance/ a group of substances which may cause harm to the unborn child
12. ECOLOGICAL INFORMATION
Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
12.1 Toxicity LC 50, 96 Hrs, Fish mg/l >1000 EC50, 48 Hrs, Daphnia, mg/l 1000 LC50, 72 Hrs, Algae, mg/l >1000.
12.2 Persistence and degradability Degradability The product is not readily biodegradable.
12.3 Bio accumulative potential Bioaccumulative potential No data available on bioaccumulation.
12.4 Mobility in soil Mobility The product is insoluble in water.
12.5 Results of PBT and vPvB assessment Not classified as PBT/vPvB by current EU criteria.
12.6 Other adverse effects No information required
13. DISPOSAL CONSIDERATIONS
General Information Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. Do not puncture or incinerate even when empty.
13.1 Waste treatment methods Dispose of waste and residues in accordance with local authority requirements.
14. TRANSPORT INFORMATION
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)
15. REGULATORY INFORMATION
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Statutory Instruments The Chemicals (Hazard Information and Packaging for supply) Regulations 2009 (S.I. 2009 No. 716)
Approved Code of Practice Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparation Dangerous for Supply.
Guidance Notes Workplace Exposure Limits EH40.
EU Legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemical Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive &6/769?EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments, Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.
Water hazard classification WGK 2
15.2 Chemical safety assessment No chemical safety assessment has been carried out. Inventory information TSCA, DSL, AICS, NZIOC, KECL, PICCS, ENCS



PRODUCT: REOFOS 95

(RE95) REVISION: 2 DATED: 31/01/13

PAGE 6 OF 6

16. OTHER INFORMATION

Full text of R Phrases referred to under sections 2 and 3

R63: Possible risk of harm to the unborn child.

R62: Possible risk of impaired fertility.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3

H410: Very toxic to aquatic life with long lasting effects.

H400: Very toxic to aquatic life

Source of key data used to compile the data sheet

Supplier information (120521)

Modifications from last revision

The Safety Data Sheets have been revised throughout to conform to EC Directive 1907/2006 and amendments

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