

MULTITREAT 5537

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SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Produkte (Deutschland) GmbH Frankfurt am Main, 65926 Telephone No.: +49 69 305 18000
Information of the substance/preparation:	Product Stewardship, +1-704-331-7710
Emergency tel. number:	+1 800-424-9300 CHEMTREC

Trade name: MULTITREAT 5537**Material number:** 195206**Primary product use:** Multifunctional product
dissolving/dispersing**Chemical family:** Phosphonium Salt

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Inhalation) : Category 4

Serious eye damage : Category 1

Skin sensitisation : Category 1

Reproductive toxicity : Category 2

GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H361 Suspected of damaging fertility or the unborn child.**Precautionary statements** : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of

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the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

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 or doctor/ physician.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
Tetrakis(hydroxymethyl)phosphonium sulphate(2:1)	55566-30-8	10 - 30
Ammonium chloride	12125-02-9	< 5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

- General advice : Remove/Take off immediately all contaminated clothing. Ensure that the First Aid Personnel are aware of the product involved, and take precautions to protect themselves (e.g. wear personal protection equipment).
- If inhaled : Move the victim to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical advice/ attention. Never give anything by mouth to an unconscious person.
- In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes

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and consult a physician.

If swallowed : Get medical attention immediately.
Do NOT induce vomiting.

Most important symptoms
and effects, both acute and
delayed : None known.

Notes to physician : None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam
Dry powder
Carbon dioxide (CO₂)

Specific hazards during
firefighting : Carbon dioxide (CO₂)
Carbon monoxide
Oxides of phosphorus
Sulphur oxides

Further information : Cool endangered containers with water spray jet.
Fire residues and contaminated fire extinguishing water must
be disposed of in accordance with local regulations.

Special protective equipment
for firefighters : Full protective suit
In case of fire:
Wear respiratory protection.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,
protective equipment and
emergency procedures : Ensure adequate ventilation.
Wear suitable protective equipment.
Use respiratory protection if exposed to
vapours/dust/aerosols.
Avoid contact with skin and eyes.
Contain spill. Ensure adequate ventilation and wear
appropriate personal protective equipment. Collect onto inert
absorbent. Place in sealable container. Do not allow to
contaminate water sources or sewers.

Environmental precautions : The product should not be allowed to enter drains, water
courses or the soil.
If the product contaminates rivers and lakes or drains inform
respective authorities.

Methods and materials for
containment and cleaning up : Soak up with inert absorbent material.
Dispose of absorbed material in accordance with the

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regulations.
Rinse away rest with plenty of water

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Use only with adequate ventilation and proper protective eyewear, gloves, and clothing.
Wash thoroughly after handling.
Keep container closed.
- Conditions for safe storage : Keep container tightly closed in a cool, well-ventilated place.
Do not use container made of mild steel.
Keep only in the original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ammonium chloride	12125-02-9	TWA	10 mg/m ³	ACGIH
		Further information: Eye & Upper Respiratory Tract irritation		
		STEL	20 mg/m ³	ACGIH
		Further information: Eye & Upper Respiratory Tract irritation		
		TWA (Fumes)	10 mg/m ³	NIOSH REL
		ST (Fumes)	20 mg/m ³	NIOSH REL
		TWA	10 mg/m ³	OSHA P0
		STEL	20 mg/m ³	OSHA P0
		TWA (Fumes)	10 mg/m ³	ACGIH
		Further information: Upper Respiratory Tract irritation, Eye irritation		
		STEL (Fumes)	20 mg/m ³	ACGIH
		Further information: Upper Respiratory Tract irritation, Eye irritation		
		TWA (Fumes)	10 mg/m ³	NIOSH REL
		ST (Fumes)	20 mg/m ³	NIOSH REL
		TWA (Fumes)	10 mg/m ³	OSHA P0
		STEL (Fumes)	20 mg/m ³	OSHA P0

Engineering measures : Provide adequate ventilation.

Personal protective equipment

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Respiratory protection	: If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134.
Hand protection Remarks	: Chemical resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol). However, please note that PVA degrades in water.
Eye protection	: Tightly fitting safety goggles
Skin and body protection	: Wear suitable protective equipment.
Protective measures	: Avoid contact with skin and eyes. Do not breathe vapours, aerosols. Do not breathe mist. It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday. Take off immediately all contaminated clothing. Avoid inhalation, ingestion and contact with skin and eyes.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Particle size :	Not applicable
Colour	: clear
Odour	: pungent
Odour Threshold	: not tested.
pH	: 2.6 - 4.0
Melting point	: not determined
Boiling point	: > 100 °C (1,013 hPa)
Flash point	: > 200 °F Method: closed cup
Evaporation rate	: not tested.
Upper explosion limit	: Not applicable

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Lower explosion limit	: Not applicable
Combustion number :	Not applicable
Vapour pressure	: not tested.
Relative vapour density	: not tested.
Density	: 1.08 - 1.13 g/cm ³ (25 °C) Method: ASTM D 1298
Solubility(ies) Water solubility	: miscible
Partition coefficient: n- octanol/water	: Not applicable
Auto-ignition temperature	: not tested.
Decomposition temperature	: > 200 °C No decomposition if used as directed.
Viscosity Viscosity, dynamic	: not tested.
Explosive properties	: Not explosive Method: Expert judgement
Oxidizing properties	: The substance or mixture is not classified as oxidizing. Method: Expert judgement

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: See section 10.3. "Possibility of hazardous reactions"
Chemical stability	: Stable
Possibility of hazardous reactions	: Reactions with reducing agents. Reactions with alkalies.
Conditions to avoid	: Keep away from heat.
Incompatible materials	: Alkalis Reducing agents
Hazardous decomposition products	: Carbon monoxide and carbon dioxide Oxides of phosphorus Sulphur oxides Hydrogen

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SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Eye contact

Skin contact

Ingestion

Inhalation

Acute toxicity**Product:**

Acute oral toxicity : Remarks: not tested.

Acute inhalation toxicity : Remarks: not tested.

Acute dermal toxicity : Remarks: not tested.

Components:**Ammonium chloride:**

Acute oral toxicity : LD50 (Rat): 1,650 mg/kg

Skin corrosion/irritation**Product:**

Remarks: not tested.

Serious eye damage/eye irritation**Product:**

Remarks: not tested.

Respiratory or skin sensitisation**Product:**

Assessment: Sensitising

Method: 1999/45/EC

Carcinogenicity**IARC** Not listed**OSHA** Not listed**NTP** Not listed**Further information****Product:**

Remarks: May cause sensitization by skin contact.

The classification was made by the conventional (calculation) method of the CLP Regulation (EC) No 1272/2008.

This product contains a substance classified as a Category 3 Reprotoxic

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SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**Toxicity to fish :
Remarks: not tested.Toxicity to daphnia and other :
aquatic invertebrates Remarks: not tested.Toxicity to algae :
Remarks: not tested.**Persistence and degradability****Product:**Biodegradability : Biodegradation: > 60 %
GLP: yes
Remarks: Information refers to the main component.Physico-chemical :
removability Remarks: not tested.**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: not tested.

Mobility in soil**Product:**Distribution among :
environmental compartments Remarks: not tested.**Other adverse effects****Product:**Environmental fate and :
pathways Remarks: no data availableResults of PBT and vPvB :
assessment Remarks: no data availableAdditional ecological :
information The classification was made by the conventional (calculation)
method of the CLP Regulation (EC) No 1272/2008.

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SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

- Waste from residues : Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.
- Contaminated packaging : Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse
Packaging that cannot be cleaned should be disposed of as product waste

SECTION 14. TRANSPORT INFORMATION**DOT** not restricted**IATA**

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
Class: 9
Packing group: III
UN/ID number: UN 3082
Primary risk: 9
Remarks: Shipment permitted
Hazard inducer(s): Tetrakis Hydroxymethyl Phosphonium Sulphate

IMDG

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
Class: 9
Packing group: III
UN no.: UN 3082
Primary risk: 9
Hazard inducer(s): Tetrakis Hydroxymethyl Phosphonium Sulphate
Hazard inducer / Marine pollutant: Tetrakis Hydroxymethyl Phosphonium Sulphate
Marine pollutant: Marine Pollutant
EmS: F-A S-F

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act**

- SARA 311/312 Hazards** : Acute Health Hazard
- SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313** : This product is not subject to SARA Title III Section 313 reporting requirements under 40 CFR 372.

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Clean Water Act

This product is not a Clean Water Act priority pollutant.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION**Further information**

Do not breathe vapour.
Ensure adequate ventilation.
Do not get in eyes.
Do not get on skin.
Do not swallow.
When using do not eat, drink or smoke.

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This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications.

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