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Substance key: SXR025507	Revision Date: 09/16/2025
Version: 6 - 2 / USA	Date of printing :09/17/2025

SECTION 1. IDENTIFICATION

Identification of the Clariant Corporation

500 East Morehead Street
Charlotte, NC, 28202

Telephone No.: +1 704 331 7000

Information of the substance/preparation: Product Stewardship, +1-704-331-7710 e-mail: SDS.NORAM@clariant.com

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: Exolit AP 462 Material number: 106961

Primary product use: Flame retardants

Chemical family: ammonium polyphosphate (CAS No 68333-79-9),

microencapsulated with melamin formaldehye resin (CAS No 9003-

08-1)

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards for the product as supplied

Not a hazardous substance or mixture.

Other hazards

No additional hazards are known except those derived from the labelling.

GHS label elements

Not a hazardous substance or mixture.

Hazards resulting from a reaction with other chemicals under normal conditions of use:

Conditions	Chemicals formed	Hazards
Reacts with	Ammonium hydroxide	Harmful if swallowed.
Strong bases		Causes severe skin burns and eye damage.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture



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Components

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION 4. FIRST AID MEASURES

General advice : Get medical advice/ attention if you feel unwell.

Do not leave the victim unattended.

If inhaled : Move to fresh air.

If unconscious, place in recovery position and seek medical

advice.

Never give anything by mouth to an unconscious person.

Get immediate medical advice/ attention.

Give oxygen or artificial respiration if needed.

In case of skin contact : If on skin, rinse well with water.

If on clothes, remove clothes.

If skin irritation occurs, seek medical advice/attention.

In case of eye contact : Immediately flush eye(s) with plenty of water.

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

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Rinse mouth with water.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

The possible health hazards known are those derived from the labelling (see corresponding section) and/or provided in this

section.

The possible symptoms known are those derived from the

labelling (see section 2).

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray jet

Alcohol-resistant foam

Dry powder

Carbon dioxide (CO2)

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

High volume water jet



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Hazardous combustion

products

Phosphorus compounds Nitrogen oxides (NOx)

Ammonia Carbon oxides Hydrocarbons

Further information : In the event of fire and/or explosion do not breathe fumes.

Do not allow run-off from fire fighting to enter drains or water

courses.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment:

for firefighters

Wear full protective clothing and self-contained breathing

apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

Avoid breathing dust. Avoid dust formation.

Small spills may be flushed to the sewer or swept up. Larger spills should be collected by shovelling into appropriate waste

collection containers. Clean-up by flushing with water if desired or removal of contaminated soil. Utilize recommended

clothing and equipment.

Environmental precautions : The product should not be allowed to enter drains, water

courses or the soil.

Methods and materials for containment and cleaning up

Avoid dust formation.

Non-sparking tools should be used.

Take measures to prevent the build up of electrostatic charge. Sweep up and shovel into suitable containers for disposal.

Clean contaminated surface thoroughly.

Treat recovered material as described in the section "Disposal

considerations".

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Keep away from heat and sources of ignition.

Observe the general rules of industrial fire protection

Take precautionary measures against build-up of electrostatic



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charges, e.g earthing during loading and off-loading

operations.

Dust can form an explosive mixture in air.

Electrical equipment should be protected to the appropriate

standard.

Cool endangered containers with water spray jet.

Advice on safe handling : Use only with adequate ventilation/personal protection.

For personal protection see section 8. Avoid contact with skin, eyes and clothing.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

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

other ignition sources. No smoking.

Avoid dust formation.

Take measures to prevent the build up of electrostatic charge. Ensure all equipment is electrically grounded before beginning

transfer operations.

Use only non-sparking tools.

Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-

ventilated place.

Handle and open container with care.

Keep away from sources of ignition - No smoking.

Materials to avoid : Do not store with alkalies

Further information on

storage stability

Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Use adequate exhaust ventilation and/or dust collection to

keep dust levels below exposure limits.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to

maintain vapor exposures below recommended limits. Where

concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided

by air purifying respirators against exposure to any

hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other

circumstance where air purifying respirators may not provide

adequate protection.



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Hand protection

Remarks : Butyl Rubber, PVC Or Neoprene.

Eye protection : Wear safety glasses with side shields or goggles.

Skin and body protection : Wear protective clothing, including long sleeves and gloves,

to prevent skin contact.

Protective measures : Observe the usual precautions for handling chemicals.

Avoid breathing dust or vapour.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Use protective skin cream before handling the product. Wash hands before breaks and at the end of workday. Take off immediately all contaminated clothing and wash it

before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

Colour : white

Odour : not specified

Odour Threshold : Not tested

pH : approx. 7 (77 °F / 25 °C)

Concentration: 10 g/l Suspension in water

Melting point : no data available

Boiling point : Not applicable

Flash point : Not applicable

Evaporation rate : no data available

Flammability (solid, gas) : Not expected to form explosive dust-air mixtures.

Self-ignition : Method: Expert judgement

The substance or mixture is not classified as pyrophoric. The

substance or mixture is not classified as self heating.

Burning number : 1

Does not catch fire



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Upper explosion limit / upper

flammability limit

Not applicable

Lower explosion limit / Lower :

flammability limit

Not applicable

Vapour pressure : <1 mbar (68 °F / 20 °C)

Relative vapour density : no data available

Relative density : no data available

Density : 1.9 g/cm3 (77 °F / 25 °C)

Bulk density : approx. $900 \text{ kg/m} 3 (68 \degree \text{F} / 20 \degree \text{C})$

Solubility(ies)

Water solubility : $\leq 0.4 \text{ g/l} (77 \text{ °F} / 25 \text{ °C})$

Partition coefficient: n-

octanol/water

Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : $> 527 \, ^{\circ}\text{F} \, / > 275 \, ^{\circ}\text{C}$

Heating rate: 5 K/min

Method: DTA

start of decomposition

Viscosity

Viscosity, dynamic : $\leq 20 \text{ mPa.s} (77 \text{ °F} / 25 \text{ °C})$

100 g/l in water

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Not explosive

Method: Expert judgement

Oxidizing properties : Method: Expert judgement

The product does not contain organic peroxide-groups which result from either the manufacturing process or from added

ingredients. not oxidizing

Impact sensitivity : Not impact sensitive.

Surface tension : Based on chemical structure, no surface activity is expected

or can be predicted.



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Molecular weight : no data available

Dust explosion class : not capable of dust explosion

Metal corrosion rate : no data available

Particle size : \leq 100 µm

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable

Possibility of hazardous

reactions

Contact with strong bases liberates ammonia.

The substance or mixture does not emit flammable gases in

contact with water. Not corrosive to metals

Stable

Conditions to avoid : Protect from heat/overheating.

Keep away from strong bases.

Incompatible materials : Keep away from strong bases.

Hazardous decomposition

products

This product may release the following:

Possibility of generation of small quantities of formaldehyde.

Ammonia

Carbon dioxide (CO2)
Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Eye contact Ingestion Inhalation

Acute toxicity

Not classified

Product:

Acute oral toxicity : Remarks: not tested.

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available



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Skin corrosion/irritation

Not classified

Product:

Remarks : not tested.

Serious eye damage/eye irritation

Not classified

Product:

Remarks : not tested.

Respiratory or skin sensitisation

Skin sensitisation

Not classified

Respiratory sensitisation

Not classified

Product:

Remarks : not tested.

Germ cell mutagenicity

Not classified

Product:

Germ cell mutagenicity -

: No information available.

Assessment

Carcinogenicity

Not classified

Product:

Carcinogenicity -

: No information available.

Assessment

IARC No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified



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Product:

Reproductive toxicity -

Assessment

: No information available.

STOT - single exposure

Not classified

Product:

Remarks : no data available

STOT - repeated exposure

Not classified

Product:

Remarks : no data available

Aspiration toxicity

Not classified

Product:

no data available

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the

labelling (see section 2).

Further information

Product:

Remarks : The product itself has not been tested.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : Remarks: not tested.

Toxicity to daphnia and other :

aquatic invertebrates Remar

Remarks: no data available

Toxicity to algae/aquatic

plants

Remarks: no data available

Toxicity to microorganisms : Remarks: no data available



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Persistence and degradability

Product:

Biodegradability : Remarks: Inorganic substance. Causes no biological oxygen

consumption.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: no data available

Mobility in soil

Product:

Distribution among : Remarks: no data available

environmental compartments

Other adverse effects

Product:

Additional ecological

information

May contribute to eutrophication in static waters, therefore

This product, if discarded as sold, is not a Federal RCRA

should not be released into surface waters The product itself has not been tested.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource

Conservation and Recovery

Authorization Act

Waste Code : NONE

Waste from residues : Product should be taken to a suitable and authorized waste

hazardous waste.

disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator

and/or the competent Authorities

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as

product waste

SECTION 14. TRANSPORT INFORMATION

DOT not restrictedIATA not restrictedIMDG not restricted



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SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

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

TSCA : On TSCA Inventory, All components are compliant with the

TSCA Inventory Notification (Active) rule.

SECTION 16. OTHER INFORMATION

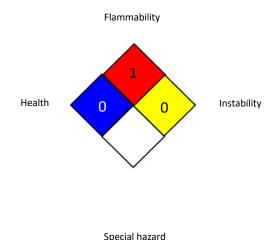
Further information



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NFPA 704:



Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardisation; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand



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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

Observe national and local legal requirements 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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