

EXOLIT AP 462 Page 1

Substance key: SXR025507 Revision Date: 11/03/2022
Version: 4 - 8 / USA Date of printing: 07/30/2024

SECTION 1. IDENTIFICATION

Identification of the

company:

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)

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

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

SECTION 4. FIRST AID MEASURES

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



EXOLIT AP 462 Page 2

Substance key: SXR025507 Revision Date: 11/03/2022 Version: 4-8/USA Date of printing:07/30/2024

irritation occurs, seek medical attention.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

Get medical attention immediately if irritation develops and

persists.

Most important symptoms and effects, both acute and

delayed

The possible symptoms known are those derived from the

labelling (see section 2).

No additional symptoms are known.

Treat symptomatically. Notes to physician

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray jet

Foam

Unsuitable extinguishing

media

High volume water jet Carbon dioxide (CO2)

Dry powder

Specific hazards during

firefighting

In case of fires, hazardous combustion gases are formed:

Carbon monoxide (CO) Carbon dioxide (CO2)

Ammonia

Possibility of splitting off of small amounts of formaldehyde

Further information Exercise caution when fighting any chemical fire. Use NIOSH

approved self-contained breathing apparatus and full

protective clothing.

for firefighters

Special protective equipment : Self-contained breathing apparatus

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Unprotected persons

must be kept away. Do not breathe dust.

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.

Do not allow spilt product to enter soil or waterways **Environmental precautions**

Do not allow to enter drains or waterways

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

barriers).

Methods and materials for Pick up mechanically. Rinse away rest with water.



EXOLIT AP 462 Page 3

Substance key: SXR025507 Revision Date: 11/03/2022
Version: 4 - 8 / USA Date of printing: 07/30/2024

containment and cleaning up

Dispose of contaminated material as prescribed

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

No special measures necessary.

Advice on safe handling : Avoid dust formation. Keep away from sources of ignition.

Lead off electrostatic charges.

Avoid inhalation, ingestion and contact with skin and eyes.

Wash thoroughly after handling.

Use personal protective equipment.

Avoid dust formation.

Conditions for safe storage : Keep only in unopened original container.

Further information on

storage conditions

Store in original container.

Keep container tightly closed.

Store in a cool, dry, well-ventilated area.

Materials to avoid : Do not store with alkalies

Further information on

storage stability

In the original, unopened packages protected from moisture,

product can be stored for at least 12 months

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Local ventilation recommended - mechanical ventilation may

be used.

A system of local and/or general exhaust is recommended where employee exposures are at or above Occupational

Exposure Limits (OEL).

Personal protective equipment

Respiratory protection : Use NIOSH/MSHA approved respirators following

manufacturer's recommendations where dust or fume may be

generated.

Hand protection

Remarks : Butyl Rubber, PVC Or Neoprene.

Eye protection : Safety glasses or chemical splash goggles.



EXOLIT AP 462 Page 4

Substance key: SXR025507 Revision Date: 11/03/2022
Version: 4 - 8 / USA Date of printing: 07/30/2024

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.

Hygiene measures : Clean skin thoroughly after work; apply skin cream.

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

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

Boiling point : Not applicable

Flash point : Not applicable

Evaporation rate : no data available

Flammability (solid, gas) : not determined

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

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



EXOLIT AP 462 Page 5

Substance key: SXR025507 Revision Date: 11/03/2022 Version: 4 - 8 / USA Date of printing :07/30/2024

Relative density no data available

1.9 g/cm3 (77 °F / 25 °C) Density

Bulk density approx. 900 kg/m3 (68 °F / 20 °C)

Solubility(ies)

Water solubility <= 0.4 g/l (77 °F / 25 °C)

Partition coefficient: n-

octanol/water

Not applicable

Auto-ignition temperature Not applicable

> 527 °F / > 275 °C Decomposition temperature

Heating rate: 5 K/min

Method: DTA

start of decomposition

Viscosity

Viscosity, dynamic <= 20 mPa.s (77 °F / 25 °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.

Molecular weight no data available

Dust explosion class not capable of dust explosion

Metal corrosion rate Not applicable

Particle size <= 100 µm



EXOLIT AP 462 Page 6

Substance key: SXR025507 Revision Date: 11/03/2022
Version: 4 - 8 / USA Date of printing: 07/30/2024

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:

Ammonia

Formaldehyde

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

Eye contact Skin contact Inhalation

Acute toxicity

Product:

Acute oral toxicity : Remarks: not tested.

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Skin corrosion/irritation

Product:

Remarks : not tested.

Serious eye damage/eye irritation

Product:

Remarks : not tested.



EXOLIT AP 462 Page 7

Substance key: SXR025507 Revision Date: 11/03/2022

Version: 4 - 8 / USA Date of printing: 07/30/2024

Respiratory or skin sensitisation

Product:

Remarks : not tested.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: not tested.

Germ cell mutagenicity -

Assessment

: No information available.

Carcinogenicity

Product:

Remarks : not tested.

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

Product:

Effects on fertility : Remarks: not tested.

Reproductive toxicity -

Assessment

: No information available.

STOT - single exposure

Product:

Remarks : no data available

STOT - repeated exposure

Product:

Remarks : no data available

Repeated dose toxicity

Product:

Remarks : not tested.



EXOLIT AP 462 Page 8

Substance key: SXR025507 Revision Date: 11/03/2022

Version: 4 - 8 / USA Date of printing: 07/30/2024

Aspiration toxicity

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

Remarks: no data available

Toxicity to algae/aquatic

plants

Remarks: no data available

Toxicity to microorganisms : Remarks: no data available

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



EXOLIT AP 462 Page 9

Substance key: SXR025507 Revision Date: 11/03/2022
Version: 4 - 8 / USA Date of printing: 07/30/2024

Other adverse effects

Product:

Environmental fate and

pathways

: Remarks: no data available

Additional ecological

information

May contribute to eutrophication in static waters, therefore

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

Waste from residues

: NONE

Small quantities may be treated in aerobic wastewater

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

treatment systems. Larger quantities may be incinerated or

landfilled after solidification in permitted systems.

Contaminated packaging : Uncontaminated packaging may be taken for recycling

hazardous waste.

SECTION 14. TRANSPORT INFORMATION

DOT not restrictedIATA not restrictedIMDG not restricted

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



EXOLIT AP 462 Page 10

| Substance key: SXR025507 | Revision Date: 11/03/2022 |
|--------------------------|------------------------------|
| Version: 4 - 8 / USA | Date of printing :07/30/2024 |

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:

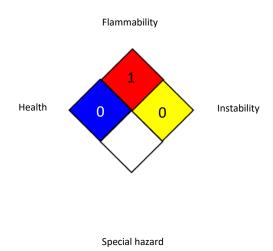
TSCA : On TSCA Inventory, All components are compliant with the

TSCA Inventory Notification (Active) rule.

SECTION 16. OTHER INFORMATION

Further information

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 -



EXOLIT AP 462 Page 11

Substance key: SXR025507 Revision Date: 11/03/2022

Version: 4 - 8 / USA Date of printing: 07/30/2024

Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized 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 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; 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 - 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; 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 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

Not on the Chemical Weapons Convention (CWC) Toxic Chemicals and Precursors List For additional information, contact Product Stewardship.

Revision Date : 11/03/2022

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EXOLIT AP 462 Page 12

| Substance key: SXR025507 | Revision Date: 11/03/2022 |
|--------------------------|------------------------------|
| Version: 4 - 8 / USA | Date of printing :07/30/2024 |

US / EN