

Safety Data Sheet in accordance with GB/T 16483 and GB/T 17519

CLARIANT^E

EXOLIT AP 422

Page 1

	First compiled on: 2008/02/15
Substance key: SXR025503	Revision Date: 2023/02/27
Version : 1 - 13 / CHI	Date of printing : 2023/07/06

1. PRODUCT AND COMPANY IDENTIFICATION

Trade name

EXOLIT AP 422

Material number: 106959

CAS-No.: 68333-79-9

Use of the Substance/Mixture

Industry sector : Plastic processing industry.
Producer of building materials and painting colours
Type of use : Flame retardants

Identification of the company

Clariant Plastics & Coatings
(Deutschland) GmbH
65926 Frankfurt am Main
Telephone : +49 69 305 18000

Information about the substance/preparation

BU Adsorbents & Additives
Product Stewardship
E-mail address: SDS.Europe@clariant.com

Emergency telephone number: +86 532-83889090
(For product with GHS classification (Qingdao NRCC))

+86 21 37911379
(For product without GHS classification (Jinshan Shanghai))

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	: powder
Colour	: white
Odour	: odourless

Not a hazardous substance or mixture.

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Physical and chemical hazards

Not classified based on available information.

Health hazards

Not classified based on available information.

Safety Data Sheet in accordance with GB/T 16483 and GB/T 17519

CLARIANT^E

EXOLIT AP 422

Page 2

	First compiled on: 2008/02/15
Substance key: SXR025503	Revision Date: 2023/02/27
Version : 1 - 13 / CHI	Date of printing : 2023/07/06

Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Substance
Substance name	: ammonium polyphosphate
CAS-No.	: 68333-79-9

Components

No hazardous ingredients

4. FIRST AID MEASURES

General advice	: Get medical advice/ attention if you feel unwell.
If inhaled	: Move the victim to fresh air.
In case of skin contact	: IF ON SKIN: Wash with plenty of soap and water.
In case of eye contact	: Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.
If swallowed	: If swallowed, seek medical advice immediately and show this container or label.
Most important symptoms and effects, both acute and delayed	: No symptoms known currently. No hazards known at this time.
Notes to physician	: Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray jet Foam
Unsuitable extinguishing media	: High volume water jet Carbon dioxide (CO ₂) Dry powder

Safety Data Sheet in accordance with GB/T 16483 and GB/T 17519

CLARIANT

EXOLIT AP 422

Page 3

	First compiled on: 2008/02/15
Substance key: SXR025503	Revision Date: 2023/02/27
Version : 1 - 13 / CHI	Date of printing : 2023/07/06

- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Ammonia
- Specific extinguishing methods : Wear suitable protective equipment.
- Special protective equipment for firefighters : Wear personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Wear suitable protective 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 : Pick up mechanically. Rinse away rest with water.
Dispose of contaminated material as prescribed
- Prevention of secondary hazards : For disposal considerations see section 13.

7. HANDLING AND STORAGE

Handling

- Advice on protection against fire and explosion : No special measures necessary.
- Advice on safe handling : Do not breathe vapours/dust.
Wash thoroughly after handling.
- Avoidance of contact : Alkalies

Storage

- Conditions for safe storage : Keep only in unopened original container.
- Further information on storage conditions : Keep container tightly closed.
Store in cool place.
Store in a dry place.
- Materials to avoid : Do not store with alkalies

Safety Data Sheet in accordance with GB/T 16483 and GB/T 17519

CLARIANT^E

EXOLIT AP 422

Page 4

	First compiled on: 2008/02/15
Substance key: SXR025503	Revision Date: 2023/02/27
Version : 1 - 13 / CHI	Date of printing : 2023/07/06

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Personal protective equipment

Respiratory protection	: not required under normal use In the case of dust or aerosol formation use respirator with an approved filter. Half mask with a particle filter P2 (EN 143) Applicable national Regulations must be observed. Take note of the limitations regarding wear-time, in conjunction with the Regulations for the use of Respiratory Protective Equipment.
Eye/face protection	: Safety glasses
Skin and body protection	: Wear suitable protective equipment.
Hand protection	
Remarks	: Nitrile rubber gloves. Minimum thickness (glove): not determined Minimum breakthrough time (glove): not determined Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Protective measures	: Observe the usual precautions for handling chemicals.
Hygiene measures	: Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke. Use protective skin cream before handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: powder
Colour	: white
Odour	: odourless
Odour Threshold	: not determined
pH	: approx. 6.5 (25 °C) Concentration: 10 g/l Suspension in water
Decomposition temperature	: > 275 °C
Boiling point	: Not applicable

Safety Data Sheet in accordance with GB/T 16483 and GB/T 17519

CLARIANT^E

EXOLIT AP 422

Page 5

	First compiled on: 2008/02/15
Substance key: SXR025503	Revision Date: 2023/02/27
Version : 1 - 13 / CHI	Date of printing : 2023/07/06

Flash point	: Not applicable
Evaporation rate	: no data available
Flammability (solid, gas)	: Not classified as a flammability hazard
Self-ignition	: $\geq 400\text{ }^{\circ}\text{C}$ Method: VDI 2263 (Grewer) $\geq 400\text{ }^{\circ}\text{C}$ Method: VDI 2263 (Grewer) The sample was mixed 1:1 with diatomaceous earth.
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	: no data available
Relative vapour density	: no data available
Relative density	: no data available
Density	: 1.9 g/cm^3 ($25\text{ }^{\circ}\text{C}$)
Bulk density	: approx. 700 kg/m^3 ($20\text{ }^{\circ}\text{C}$)
Solubility(ies) Water solubility	: approx. 5 g/l ($25\text{ }^{\circ}\text{C}$)
Partition coefficient: n-octanol/water	: not tested.
Auto-ignition temperature	: Not applicable
Decomposition temperature	: $> 275\text{ }^{\circ}\text{C}$ Heating rate: 5 K/min Method: DTA start of decomposition
Viscosity Viscosity, dynamic	: $\leq 100\text{ mPa.s}$ ($25\text{ }^{\circ}\text{C}$) 100 g/l in water
Explosive properties	: Not explosive

Safety Data Sheet in accordance with GB/T 16483 and GB/T 17519

CLARIANT^E

EXOLIT AP 422

Page 6

	First compiled on: 2008/02/15
Substance key: SXR025503	Revision Date: 2023/02/27
Version : 1 - 13 / CHI	Date of printing : 2023/07/06

Method: Expert judgement
GLP: no

Oxidizing properties	: The substance or mixture is not classified as oxidizing. Method: Expert judgement GLP: no The product does not contain organic peroxide-groups which result from either the manufacturing process or from added ingredients.
Self-heating substances	: The substance or mixture is not classified as self heating.
Impact sensitivity	: Not impact sensitive.
Molecular weight	: no data available
Dust explosion class	: not capable of dust explosion
Metal corrosion rate	: Not applicable
Particle size	: <= 100 µm

10. STABILITY AND REACTIVITY

Reactivity	: See section 10.3. "Possibility of hazardous reactions"
Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: Contact with strong bases liberates ammonia. Stable
Conditions to avoid	: Keep away from strong bases.
Incompatible materials	: Alkalis
Hazardous decomposition products	: Ammonia

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	: LD50 (Rat, female): 4,740 mg/kg Method: internal test Assessment: The substance or mixture has no acute oral toxicity
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Safety Data Sheet in accordance with GB/T 16483 and GB/T 17519

CLARIANT^E

EXOLIT AP 422

Page 7

	First compiled on: 2008/02/15
Substance key: SXR025503	Revision Date: 2023/02/27
Version : 1 - 13 / CHI	Date of printing : 2023/07/06

Acute inhalation toxicity : Remarks: no data available

Skin corrosion/irritation

Product:

Species : Rabbit
Exposure time : 24 h
Assessment : No skin irritation
Method : FDA guideline
Result : slight irritant effect - does not require labelling

Serious eye damage/eye irritation

Product:

Species : rabbit eye
Result : No eye irritation
Exposure time : 1 h
Method : FDA guideline

Respiratory or skin sensitisation

Product:

Test Type : Guinea pig maximization test
Species : Guinea pig
Method : Magnusson/Kligman
Result : non-sensitizing

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: not tested.

Germ cell mutagenicity - Assessment : Not mutagenic in Ames Test

STOT - single exposure

Product:

Remarks : no data available

STOT - repeated exposure

Product:

Remarks : no data available

Repeated dose toxicity

Product:

Remarks : not tested.

Safety Data Sheet in accordance with GB/T 16483 and GB/T 17519

CLARIANT^E

EXOLIT AP 422

Page 8

	First compiled on: 2008/02/15
Substance key: SXR025503	Revision Date: 2023/02/27
Version : 1 - 13 / CHI	Date of printing : 2023/07/06

Aspiration toxicity

Product:

no data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 500 mg/l
Exposure time: 96 h
Method: OECD

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: Not applicable

Mobility in soil

no data available

Other adverse effects

Product:

Environmental fate and :
pathways Remarks: not available

Additional ecological : The ecological values have been gathered from a saturated
information aqueous solution.
May contribute to eutrophication in static waters, therefore
should not be released into surface waters

Safety Data Sheet in accordance with GB/T 16483 and GB/T 17519

CLARIANT^E

EXOLIT AP 422

Page 9

	First compiled on: 2008/02/15
Substance key: SXR025503	Revision Date: 2023/02/27
Version : 1 - 13 / CHI	Date of printing : 2023/07/06

13. DISPOSAL CONSIDERATIONS

Disposal methods

- Waste from residues : In accordance with waste regulations, send for recovery or disposal
The diluted solution may be discharged to a sewerage treatment plant, provided that prior agreement has been received from the treatment plant operator.
- Contaminated packaging : Uncontaminated packaging may be taken for recycling

14. TRANSPORT INFORMATION

IATA	not restricted
IMDG	not restricted
TDG_CN	not restricted
RID	not restricted

15. REGULATORY INFORMATION

National regulatory information

GB13690: General rule for classification and hazard communication of chemicals
Decree No. 591 of the State Council of the People's Republic of China: Regulations on the Control over Safety of Hazardous Chemicals.
GB 6944-2012: Classification and code of dangerous goods.
GB 12268-2012: List of dangerous goods.
GB 190-2009: Packing symbol of dangerous goods.
GB 30000.2-29 – 2013 , Rules for classification and labelling of chemicals.
Law of the People's Republic of China on Prevention and Control of Occupational Diseases (Amended in 2011).

16. OTHER INFORMATION

- Revision Date : 2023/02/27
- Date format : yyyy/mm/dd

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with

Safety Data Sheet in accordance with GB/T 16483 and GB/T 17519

CLARIANT^E

EXOLIT AP 422

Page 10

	First compiled on: 2008/02/15
Substance key: SXR025503	Revision Date: 2023/02/27
Version : 1 - 13 / CHI	Date of printing : 2023/07/06

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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

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