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 Substance key: 000000459820
 Revision Date: 08/06/2025

 Version: 3 - 0 / USA
 Date of printing: 09/03/2025

### **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 OP 1400

Material number: 253192

Primary product use: Flame retardants

Chemical family: mixture of flame retardants

### **SECTION 2. HAZARDS IDENTIFICATION**

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

### Hazards for the product as supplied

Combustible dust

### Other hazards

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

### **GHS** label elements

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.

Precautionary statements : **Prevention:** 

P210 Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. P233 Keep container tightly closed.

P243 Take action to prevent static discharges.

Prevent dust accumulations to minimize explosion hazard.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture



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### Components

This product does not contain any components that require disclosure according to 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

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.

Wearing appropriate personal protective equipment, contain

spill and collect into a suitable container.

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

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.



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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 : Keep in a cool place.

Keep away from alkali.

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.

Hand protection

Remarks : Butyl Rubber, PVC Or Neoprene.

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



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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 : powder

Colour : white

Odour : odourless

Odour Threshold : not determined

pH : 4.2 (68 °F / 20 °C)

Concentration: 10 g/l

Melting point :  $> 680 \, ^{\circ}\text{F} / > 360 \, ^{\circ}\text{C}$ 

Boiling point : not determined

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : not determined

Self-ignition : Method: Expert judgement

The substance or mixture is not classified as pyrophoric.

644 °F / 340 °C

25 bar

Method: VDI 2263 (Grewer)

not auto-flammable

Burning number : 1

Method: VDI 2263, ESCIS, Vol. 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 : Not applicable

Relative vapour density : Not applicable

Density : 1.448 g/cm3 (68 °F / 20 °C)

Bulk density : 466 g/lMethod: DIN 53466

Solubility(ies)

Water solubility : 3.2 g/l (68 °F / 20 °C)

Partition coefficient: n-

octanol/water

not determined

Auto-ignition temperature : not determined

Decomposition temperature : > 662 °F / > 350 °C

Heating rate: 5 K/min

Method: DTA

824 - 860 °F / 440 - 460 °C Heating rate: 3 K/min

Method: DSC

Open cup at 25 bar air pressure

752 - 878 °F / 400 - 470 °C Heating rate: 3 K/min

Method: DSC closed cup

The substance or mixture is not classified self-reactive.

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Not explosive

Method: Regulation (EC) No. 440/2008, A.14

Oxidizing properties : Method: Expert judgement

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

ingredients.



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

or can be predicted.

Dust explosion class : St1

Metal corrosion rate : no data available

Minimum ignition energy : > 100 mJ (68 °F / 20 °C)

Method: Mike 3 apparatus

Particle size : 14 µm

Median value

#### **SECTION 10. STABILITY AND REACTIVITY**

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

Chemical stability : Stable

Possibility of hazardous

reactions

The substance or mixture does not emit flammable gases in

contact with water. Not corrosive to metals

Risk of dust explosion.

Conditions to avoid : Temperatures exceeding thermal stability. High concentration

of powders. Electrostatic charges.

Incompatible materials : none

Hazardous decomposition

products

When handled and stored appropriately, no dangerous

decomposition products are known

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

Skin contact Eye contact Ingestion Inhalation

# **Acute toxicity**

Not classified

#### Skin corrosion/irritation

Not classified

# Serious eye damage/eye irritation

Not classified



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Respiratory or skin sensitisation

Skin sensitisation

Not classified

Respiratory sensitisation

Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

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.

**OSHA**No 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

STOT - single exposure

Not classified

STOT - repeated exposure

Not classified

**Aspiration toxicity** 

Not classified

**Experience with human exposure** 

**Product:** 

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

labelling (see section 2).

## **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

no data available

Persistence and degradability

**Product:** 

Biodegradability : Remarks: not available



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**Bioaccumulative potential** 

**Product:** 

Bioaccumulation : Remarks: not available

**Mobility in soil** no data available

Other adverse effects

**Product:** 

Environmental fate and

pathways

: Remarks: not available

**SECTION 13. DISPOSAL CONSIDERATIONS** 

**Disposal methods** 

RCRA - Resource

Conservation and Recovery

Authorization Act

Waste Code

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

hazardous waste.

: NONE

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

IATA not restricted

IMDG not restricted

**SECTION 15. REGULATORY INFORMATION** 

**CERCLA Reportable Quantity** 

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS 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 : Combustible dust



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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.

DSL : All components of this product are on the Canadian DSL

#### **SECTION 16. OTHER INFORMATION**

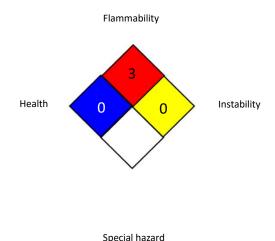
# **Further information**



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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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