

Exolit IFR 36

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Substance key: 000000025931

Revision Date: 09/12/2024

Version : 5 - 1 / USA

Date of printing :12/04/2024

**SECTION 1. IDENTIFICATION**

<b>Identification of the company:</b>	Clariant Corporation 500 East Morehead Street Charlotte, NC, 28202 Telephone No.: +1 704 331 7000
	<b>Information of the substance/preparation:</b> Product Stewardship, +1-704-331-7710 e-mail: SDS.NORAM@clariant.com
	<b>Emergency tel. number:</b> +1 800-424-9300 CHEMTREC

<b>Trade name:</b>	<b>Exolit IFR 36</b>
<b>Material number:</b>	155901
<b>Primary product use:</b>	Flame retardants
<b>Chemical family:</b>	Mixture of flame retardants

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Combustible dust

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.  
H351 Suspected of causing cancer.  
H361f Suspected of damaging fertility.Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P233 Keep container tightly closed.

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P243 Take precautionary measures against static discharge.  
Prevent dust accumulations to minimize explosion hazard.  
P280 Wear protective gloves/ protective clothing/ eye protection/  
face protection.

**Response:**

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

**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**

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Silica gel, precipitated, crystalline free	112926-00-8	>= 1 - < 5
Melamine	108-78-1	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

- General advice : Get medical advice/ attention if you feel unwell.
- 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 immediately with plenty of water, also under the eyelids,  
for at least 15 minutes.  
Get medical attention immediately if irritation develops and  
persists.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Do not give anything to drink.  
Call a physician immediately.
- Most important symptoms and effects, both acute and : The possible symptoms known are those derived from the  
labelling (see section 2).

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delayed : No additional symptoms are known.  
Suspected of causing cancer.  
Suspected of damaging fertility.

Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray jet  
Foam

Unsuitable extinguishing media : High volume water jet  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder

Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)

Electrical grounding of equipment is required to prevent possible dust explosion. Emits toxic fumes under fire conditions.

Further information : Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.

Special protective equipment for firefighters : Self-contained breathing apparatus

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Do not breathe dust.  
Wear suitable protective equipment.  
Wearing appropriate personal protective equipment, contain spill and collect into a suitable container.  
Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

Methods and materials for containment and cleaning up : Take up mechanically  
Dispose of absorbed material in accordance with the regulations.  
Avoid dust formation.  
Take measures to prevent the build up of electrostatic charge.  
Risk of dust explosion.

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations.  
Keep away sources of ignition.  
Dust can form an explosive mixture in air.
- 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.
- 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.
- Store in original container.  
Keep container tightly closed.  
Store in a cool, dry, well-ventilated area.
- Materials to avoid : Do not store with alkalies

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Silica gel, precipitated, crystalline free	112926-00-8	TWA	6 mg/m <sup>3</sup>	OSHA P0
		TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m <sup>3</sup> / %SiO <sub>2</sub> (Silica)	OSHA Z-3
		TWA	6 mg/m <sup>3</sup> (Silica)	NIOSH REL
Melamine	108-78-1	TWA	3 mg/m <sup>3</sup>	US WEEL

- Engineering measures** : A system of local and/or general exhaust is recommended where employee exposures are at or above Occupational Exposure Limits (OEL).

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**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 with side-shields
- 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 : Wash hands before breaks and at the end of workday.  
Use protective skin cream before handling the product.  
Take off immediately all contaminated clothing and wash it before reuse.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : powder
- Colour : white
- Odour : not specified
- Odour Threshold : Not tested
- pH : approx. 6.5 (77 °F / 25 °C)  
Concentration: 10 g/l
- Decomposition temperature : > 446 °F / > 230 °C
- Boiling point : not determined (for a component of this mixture)
- Flash point : Not applicable
- Self-ignition : Method: Expert judgement  
The substance or mixture is not classified as pyrophoric.
- Burning number : 1  
Does not catch fire
- Upper explosion limit / upper flammability limit : Not applicable
- Lower explosion limit / Lower : Not applicable

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flammability limit

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Density : 1.8 g/cm<sup>3</sup> (77 °F / 25 °C)

Solubility(ies)

Water solubility : &lt;= 100 g/l (77 °F / 25 °C)

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : &gt; 527 °F / &gt; 275 °C

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive  
Not explosive  
Method: Expert judgementOxidizing properties : Method: Expert judgement  
not oxidizing The product does not contain organic peroxide-groups which result from either the manufacturing process or from added ingredients.

Surface tension : Based on chemical structure, no surface activity is expected or can be predicted.

Metal corrosion rate : Not applicable

Particle size : ca. 12 µm  
Median value

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**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

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Conditions to avoid	:	Keep away from strong bases.
Incompatible materials	:	See under section "Conditions to avoid"
Hazardous decomposition products	:	Ammonia Nitrogen oxides (NOx) Carbon monoxide and carbon dioxide Phosphorus oxides (eg Phosphorus pentoxide)

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

Eye contact  
Skin contact  
Inhalation

**Acute toxicity**

Not classified due to lack of data.

**Product:**

Acute oral toxicity : Remarks: not tested.

**Components:****Silica gel, precipitated, crystalline free:**

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg

Acute inhalation toxicity : LC0 (Rat): 0.139 mg/l  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

**Melamine:**

Acute oral toxicity : LD50 (Rat, male and female): 3,161 - 3,828 mg/kg  
Method: Other  
GLP: No information available.  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.19 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Remarks: no data available

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

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**Product:**

Remarks : not tested.

**Components:****Silica gel, precipitated, crystalline free:**Species : Rabbit  
Result : No skin irritation

Result : Product dust may be irritating to eyes, skin and respiratory system.

**Melamine:**Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes**Serious eye damage/eye irritation**

Based on available data, the classification criteria are not met.

**Product:**

Remarks : not tested.

**Components:****Silica gel, precipitated, crystalline free:**Species : rabbit eye  
Result : No eye irritation

Result : Product dust may be irritating to eyes, skin and respiratory system.

**Melamine:**Species : Rabbit  
Result : No eye irritation  
Method : Other  
GLP : no**Respiratory or skin sensitisation****Skin sensitisation**

Not classified due to lack of data.

**Respiratory sensitisation**

Not classified due to lack of data.



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**Components:****Silica gel, precipitated, crystalline free:**

Result : not known

**Melamine:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

**Germ cell mutagenicity**

Not classified due to lack of data.

**Product:**

Genotoxicity in vitro : Remarks: not tested.

**Components:****Silica gel, precipitated, crystalline free:**

Genotoxicity in vitro : Result: negative

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

**Melamine:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 50 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: Ames test  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Concentration: 240 - 300 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: Other  
Result: negative  
GLP: No information available.

Test Type: In vitro gene mutation study in mammalian cells  
Test system: Chinese hamster ovary cells  
Concentration: 600 - 1000 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: Other  
Result: negative  
GLP: yes

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Genotoxicity in vivo : Test Type: Chromosome Aberration Test  
Species: Mouse (male and female)  
Strain: CD1  
Cell type: Bone marrow  
Application Route: oral (gavage)  
Exposure time: 1 - 2 treatments, 24 h  
Dose: 1000 - 10000 - 20000 mg/kg  
Method: Other  
Result: negative  
GLP: yes

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

## **Carcinogenicity**

Suspected of causing cancer.

### **Product:**

Remarks : not tested.

### **Components:**

#### **Silica gel, precipitated, crystalline free:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

#### **Melamine:**

Species : Rat, male and female  
Application Route : oral (feed)  
Exposure time : 103 w  
Control Group : yes  
Frequency of Treatment : daily  
 : 126 mg/kg bw/day  
Method : Other  
Result : equivocal  
GLP : No information available.

Carcinogenicity - Assessment : Suspected human carcinogens

**IARC** Group 2B: Possibly carcinogenic to humans  
Melamine 108-78-1

**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**

Suspected of damaging fertility.

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**Product:**

Effects on fertility : Remarks: not tested.

**Components:****Silica gel, precipitated, crystalline free:**

Effects on fertility : Remarks: Based on available data, the classification criteria are not met.

Reproductive toxicity -  
Assessment : No reproductive toxicity to be expected.  
No teratogenic effects to be expected.**Melamine:**Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Other  
Method: Other  
Remarks: Fertility and developmental toxicity tests did not reveal any effect on reproduction.Effects on foetal  
development : Test Type: Pre-natal  
Species: Rat, female  
Strain: wistar  
Application Route: oral (feed)  
Dose: 136, 400, 1060 mg/kg bw/day  
General Toxicity Maternal: NOAEL: 400 mg/kg body weight  
Teratogenicity: NOAEL: 1,060 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yesReproductive toxicity -  
Assessment : Some evidence of adverse effects on sexual function and  
fertility, based on animal experiments.  
Embryotoxicity classification not possible from current data.**STOT - single exposure**

Not classified due to lack of data.

**Product:**

Remarks : not available

**Components:****Silica gel, precipitated, crystalline free:**

Remarks : no data available

**Melamine:**Assessment : The substance or mixture is not classified as specific target  
organ toxicant, single exposure.**STOT - repeated exposure**

Not classified due to lack of data.

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**Product:**

Remarks : not available

**Components:****Silica gel, precipitated, crystalline free:**

Remarks : no data available

**Melamine:**Target Organs : Urinary tract  
Assessment : May cause damage to organs through prolonged or repeated exposure.**Repeated dose toxicity****Product:**

Remarks : not tested.

**Components:****Silica gel, precipitated, crystalline free:**

Remarks : No adverse effect has been observed in chronic toxicity tests.

**Melamine:**Species : Rat, male and female  
NOAEL : 72 mg/kg bw/day  
Application Route : oral (feed)  
Exposure time : 13 w  
Dose : 750 - 18000 ppm nominal in die  
Control Group : yes  
Method : Repeated Dose Toxicity (subchronic study)  
GLP : No information available.  
Target Organs : Urinary system, BladderApplication Route : Inhalation  
Remarks : This information is not available.Application Route : Skin contact  
Remarks : This information is not available.**Aspiration toxicity**

Not classified due to lack of data.

**Product:**

no data available

**Components:****Silica gel, precipitated, crystalline free:**

No aspiration toxicity classification

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**Melamine:**

No aspiration toxicity classification

**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 has not been tested. The statements are derived from products of a similar composition.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish : Remarks: no data available

Toxicity to soil dwelling organisms : Remarks: not available

Plant toxicity : Remarks: not available

Sediment toxicity : Remarks: not available

Toxicity to terrestrial organisms : Remarks: not available

**Components:****Silica gel, precipitated, crystalline free:**Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 10,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : Remarks: no data available

Toxicity to fish (Chronic toxicity) : Remarks: not required

Toxicity to daphnia and other : Remarks: not required

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aquatic invertebrates  
(Chronic toxicity)

Toxicity to microorganisms : Remarks: no data available

Toxicity to soil dwelling  
organisms : Remarks: Not applicable

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial  
organisms : Remarks: Not applicable**Melamine:**Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 3,000 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: no  
Method: Other  
GLP: no  
Remarks: The details of the toxic effect relate to the nominal concentration.Toxicity to daphnia and other  
aquatic invertebrates : EC50 (Daphnia sp. (water flea)): 200 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no  
Method: Regulation (EC) No. 440/2008, Annex, C.2  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.Toxicity to algae/aquatic  
plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 325  
mg/l  
End point: Growth rate  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no data available  
Method: Other  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.Toxicity to fish (Chronic  
toxicity) : NOEC (Pimephales promelas (fathead minnow)): >= 5.1 mg/l  
End point: length of young fish  
Exposure time: 36 d  
Test Type: flow-through test  
Analytical monitoring: yes  
Method: OECD Test Guideline 210

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GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia sp. (water flea)):  $\geq 11$  mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
GLP: yes

Toxicity to microorganisms : EC0 (Natural microorganism):  $> 100$  mg/l  
Exposure time: 2 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Other  
GLP: no

**Persistence and degradability****Product:**

Biodegradability : Remarks: not available

**Components:****Silica gel, precipitated, crystalline free:**

Biodegradability : Remarks: Not applicable

**Melamine:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 100 mg DOC/l  
Dissolved organic carbon (DOC)  
Result: not rapidly degradable  
Biodegradation:  $< 10$  %  
Exposure time: 28 d  
Method: OECD Test Guideline 302B  
GLP: No information available.

aerobic  
Inoculum: activated sludge  
Method: Other  
GLP: No information available.  
Remarks: The product is biodegradable after lengthy adaptation.

Physico-chemical removability : Remarks: Not readily eliminated from water.

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: not available

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**Components:****Silica gel, precipitated, crystalline free:**

Bioaccumulation : Remarks: Not applicable

**Melamine:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 0.38 - 3.8  
Exposure time: 42 d  
Concentration: 0.2 - 2 mg/l  
Method: Other  
GLP: No information available.

Partition coefficient: n-octanol/water : log Pow: -1.22 (72 °F / 22 °C)  
pH: 8  
Method: Regulation (EC) No. 440/2008, Annex, A.8  
GLP: no

**Mobility in soil****Product:**

Distribution among environmental compartments : Remarks: not available

**Components:****Silica gel, precipitated, crystalline free:**

Distribution among environmental compartments : adsorption  
Medium: water - soil  
Remarks: After release, adsorbs onto soil.

**Melamine:**

Distribution among environmental compartments : Adsorption/Soil  
Medium: water - soil  
log Koc: 1.13 - 1.51  
Method: estimated

**Other adverse effects****Product:**

Environmental fate and pathways : Remarks: no data available

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.  
The product has not been tested. The information is derived from the properties of the individual components.



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**Components:****Silica gel, precipitated, crystalline free:**

Environmental fate and pathways : no data available

Results of PBT and vPvB assessment : Remarks: Not applicable

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

**Melamine:**

Environmental fate and pathways : no data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

RCRA - Resource Conservation and Recovery Act : This product, if discarded as sold, is not a Federal RCRA hazardous waste.

Waste Code : None

Waste from residues : Dispose of spilled or waste product, contaminated soil and other contaminated materials in licensed landfill or treatment facility in accordance with all local, state, and federal regulations.

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

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**SECTION 14. TRANSPORT INFORMATION**

DOT : not restricted

IATA : not restricted

IMDG : not restricted

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**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.

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**SARA 311/312 Hazards** : Combustible dust  
Carcinogenicity  
Reproductive toxicity

**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 SOCM 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.

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## **SECTION 16. OTHER INFORMATION**

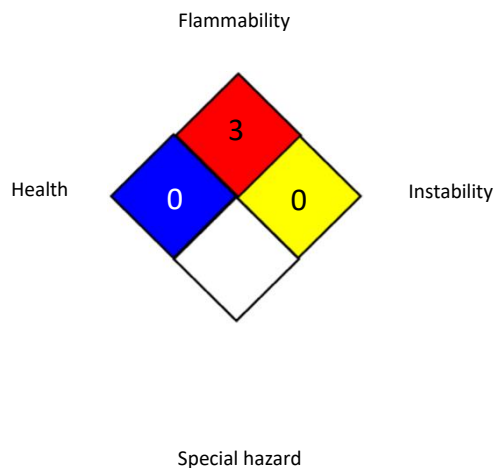
### **Further information**

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**NFPA 704:****Full text of other abbreviations**

NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average
US WEEL / TWA	:	8-hr TWA

AIIIC - 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 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

# SAFETY DATA SHEET

# CLARIANT<sup>E</sup>

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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

None known.

For additional information, contact Product Stewardship.

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