

Exolit OP 950

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Substance key: 000000098376

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## 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 OP 950</b>
<b>Material number:</b>	191890
<b>CAS number:</b>	284685-45-6
<b>Primary product use:</b>	Flame retardants
<b>Chemical family:</b>	Alkyl phosphinic acid, metal salt

## SECTION 2. HAZARDS IDENTIFICATION

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

Combustible dust

Serious eye damage : Category 1

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : May form combustible dust concentrations in air.  
H318 Causes serious eye damage.Precautionary statements : **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
No smoking.  
P233 Keep container tightly closed.  
P243 Take precautionary measures against static discharge.  
Prevent dust accumulations to minimize explosion hazard.  
P280 Wear eye protection/ face protection.**Response:**

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with

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water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

**Other hazards**

None known.

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

Substance / Mixture : Substance  
Substance name : Alkyl phosphinic acid, metal salt  
CAS-No. : 284685-45-6

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Alkyl phosphinic acid, metal salt	284685-45-6	>= 90 - <= 100

The specific chemical identity and/or the exact percentage of composition of a hazardous ingredient is being 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 : Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

If swallowed : If conscious, give the victim plenty of water to drink.  
Consult a physician.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : Causes serious eye damage.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Foam  
Water spray jet

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Dry powder

- Unsuitable extinguishing media : High volume water jet  
Carbon dioxide (CO<sub>2</sub>)
- Specific hazards during firefighting : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.  
Hazardous decomposition products formed under fire conditions.  
Carbon oxides  
Oxides of phosphorus
- Further information : Wear suitable protective equipment.
- Special protective equipment for firefighters : Wear personal protective equipment.  
In the event of fire, wear self-contained breathing apparatus.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : 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.  
Toxic to aquatic organisms.
- 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  
Avoid dust formation.  
Take measures to prevent the build up of electrostatic charge.  
Risk of dust explosion.  
Treat recovered material as described in the section "Disposal considerations".

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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.

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Use personal protective equipment.  
Avoid breathing dust.  
Avoid contact with skin and eyes.  
Wash thoroughly after handling.  
Store in a dry place.  
Keep away from heat.  
Store in original container.  
Keep container tightly closed.

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

Further information on storage conditions : Store in original container.  
Keep container tightly closed.  
Store in a cool, dry, well-ventilated area.  
Keep away from flames and sparks.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : 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 : Chemical splash goggles with face shield.

Skin and body protection : Wear protective clothing, including long sleeves and gloves, to prevent skin contact.

Protective measures : Avoid contact with skin and eyes.

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.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

Colour : white

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Odour	:	No information available.
Odour Threshold	:	Not tested
pH	:	approx. 6 (68 °F / 20 °C) Concentration: 100 g/l Suspension in water
Melting point	:	392 °F / 200 °C Method: OECD Test Guideline 102
Boiling point	:	Decomposition: Decomposes below the boiling point. Method: DSC
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form combustible dust concentrations in air.
Self-ignition	:	Method: Directive 67/548/EEC, Annex V, A.16 The substance or mixture is not classified as self heating.  The substance or mixture is not classified as pyrophoric.
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	:	1.29 g/cm <sup>3</sup> (68 °F / 20 °C) Method: 92/69/EC (L383) A.3 * Relative density
Solubility(ies) Water solubility	:	47 g/l (68 °F / 20 °C) Method: 92/69/EEC, A.6.
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	> 390 °F / > 199 °C
Decomposition temperature	:	> 428 °F / > 220 °C Heating rate: 5 K/min Method: DSC

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Viscosity		
Viscosity, dynamic	:	cannot be determined
Viscosity, kinematic	:	Not applicable
Explosive properties	:	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
Self-heating substances	:	The substance or mixture is not classified as self heating.
Impact sensitivity	:	Not impact sensitive.
Surface tension	:	71.6 N/m, 68 °F / 20 °C, 92/69/EC (L383) A.5 * Surface tension, Based on chemical structure, no surface activity is expected or can be predicted.
Sublimation point	:	Not applicable
Dust explosion class	:	St1
Metal corrosion rate	:	Not applicable
Minimum ignition energy	:	1,000 mJ Method: Mike 3 apparatus with inductive electrical resistance
Particle size	:	no data available

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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	:	Dust can form an explosive mixture in air.
Conditions to avoid	:	Protect from heat/overheating.
Incompatible materials	:	none
Hazardous decomposition products	:	No decomposition if used as directed.

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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: no data available  
Acute inhalation toxicity : Remarks: no data available  
Acute dermal toxicity : Acute toxicity estimate: 2,551 mg/kg  
Method: Calculation method

**Components:****Alkyl phosphinic acid, metal salt:**

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
GLP: No information available.  
Assessment: The substance or mixture has no acute oral toxicity  
Acute inhalation toxicity : Remarks: no data available  
Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: No information available.  
Acute toxicity (other routes of administration) : Remarks: This information is not available.

**Skin corrosion/irritation**

Not classified due to lack of data.

**Product:**

Remarks : no data available

**Components:****Alkyl phosphinic acid, metal salt:**

Species : Rabbit  
Exposure time : 4 h  
Method : Tested according to Directive 92/69/EEC.  
Result : No skin irritation  
GLP : No information available.

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**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks : no data available

**Components:****Alkyl phosphinic acid, metal salt:**

Species : Rabbit  
Result : Risk of serious damage to eyes.  
Method : Tested according to Directive 92/69/EEC.

**Respiratory or skin sensitisation****Skin sensitisation**

Not classified due to lack of data.

**Respiratory sensitisation**

Not classified due to lack of data.

**Product:**

Remarks : no data available

**Components:****Alkyl phosphinic acid, metal salt:**

Test Type : Maximisation Test  
Exposure routes : Dermal  
Species : Guinea pig  
Method : Regulation (EC) No. 440/2008, Annex, B.6  
Result : Not a skin sensitizer.

Assessment : Causes serious eye damage.

**Germ cell mutagenicity**

Not classified due to lack of data.

**Product:**

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

Germ cell mutagenicity - Assessment : Not mutagenic in Ames Test

**Components:****Alkyl phosphinic acid, metal salt:**

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Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: > 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: By analogy with a product of similar composition

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Concentration: 7.8, 25.0, 78.0, 250.0 and 780  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
Remarks: By analogy with a product of similar composition

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

## **Carcinogenicity**

Not classified due to lack of data.

### **Components:**

#### **Alkyl phosphinic acid, metal salt:**

Carcinogenicity - Assessment : No information available.

**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 due to lack of data.

### **Product:**

Reproductive toxicity - Assessment : No information available.

### **Components:**

#### **Alkyl phosphinic acid, metal salt:**

Reproductive toxicity - Assessment : No information available.

## **STOT - single exposure**

Not classified due to lack of data.

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**Product:**

Remarks : not available

**Components:**

**Alkyl phosphinic acid, metal salt:**

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.

**Product:**

Remarks : not available

**Components:**

**Alkyl phosphinic acid, metal salt:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Repeated dose toxicity**

**Product:**

Remarks : This information is not available.

**Components:**

**Alkyl phosphinic acid, metal salt:**

Species : Rat, male and female  
NOAEL : 1000 mg/kg bw/day  
Application Route : oral (gavage)  
Exposure time : 28 d  
Dose : 62,5, 250, 1000 mg/kg/d bw.  
Method : OECD Test Guideline 407  
Remarks : By analogy with a product of similar composition

Repeated dose toxicity - Assessment : Causes serious eye damage.

**Aspiration toxicity**

Not classified due to lack of data.

**Product:**

no data available

**Components:**

**Alkyl phosphinic acid, metal salt:**

No aspiration toxicity classification

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**Experience with human exposure****Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

**Further information****Product:**

Remarks : Other dangerous properties can not be excluded.  
No toxicology information is available.  
Information given is based on data obtained from similar substances.

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

Toxicity to fish : Remarks: not tested.

Toxicity to daphnia and other aquatic invertebrates : Remarks: not tested.

Toxicity to algae/aquatic plants : Remarks: not tested.

Toxicity to microorganisms : Remarks: not tested.

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:****Alkyl phosphinic acid, metal salt:**

Toxicity to fish : LC50 (Gobiocypris rarus (rare gudgeon)): > 100 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.6 mg/l  
End point: Immobilization

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Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (microalgae)): 0.14 mg/l

End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (microalgae)): < 0.063 mg/l

End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: no data available

Toxicity to microorganisms : IC50 (activated sludge): 297 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 3 h  
Test Type: static test  
Method: OECD Test Guideline 209

## Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

## Persistence and degradability

### Product:

Biodegradability : Remarks: not tested.

### Components:

#### **Alkyl phosphinic acid, metal salt:**

Biodegradability : Remarks: no data available

Stability in water : Degradation half life: > 365 d (50 °C) pH: 7  
Method: Directive 67/548/EEC, Annex V, C.7

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

Bioaccumulation : Remarks: not available

**Components:****Alkyl phosphinic acid, metal salt:**

Partition coefficient: n- : log Pow: < 0  
octanol/water : Method: No information available.  
GLP: no data available  
Remarks: By analogy with a product of similar composition

**Mobility in soil****Components:****Alkyl phosphinic acid, metal salt:**

Distribution among : adsorption  
environmental compartments : log Koc: 0.4  
Method: OECD Test Guideline 121

**Other adverse effects****Product:**Environmental fate and : Remarks: no data available  
pathwaysAdditional ecological : The product should not be allowed to enter drains, water  
information : courses or the soil.**Components:****Alkyl phosphinic acid, metal salt:**Results of PBT and vPvB : The substance is not identified as a PBT or as a vPvB  
assessment : substance.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**RCRA - Resource : This product, if discarded as sold, is not a Federal RCRA  
Conservation and Recovery : hazardous waste.  
Authorization Act

Waste Code : NONE

Waste from residues : Small quantities may be treated in aerobic wastewater  
treatment systems. Larger quantities may be incinerated or  
landfilled after solidification in permitted systems.Contaminated packaging : Packaging that cannot be cleaned should be disposed of as  
product waste

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**SECTION 14. TRANSPORT INFORMATION****DOT Regulation:**

UN/NA-number: UN 3077  
Proper shipping name: Environmentally hazardous substances, solid, n.o.s.  
Technical Name: Alkyl phosphinic acid, metal salt

Primary hazard class: 9  
Packing group: III

**IATA**

UN/ID number: UN 3077  
Proper shipping name: Environmentally hazardous substance, solid, n.o.s.  
Hazard inducer(s): Alkyl phosphinic acid, metal salt

Primary risk: 9  
Packing group: III  
Remarks: Shipment permitted

**IMDG**

UN no.: UN 3077  
Proper shipping name: Environmentally hazardous substance, solid, n.o.s.  
Hazard inducer(s): Alkyl phosphinic acid, metal salt

Primary risk: 9  
Packing group: III  
Marine pollutant: Marine Pollutant  
EmS: F-A S-F

**Further information:**

Non-dangerous good of class 9 for packagings <= 5 L / 5 kg

**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  
Serious eye damage or eye irritation

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

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**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 I 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 contains the following priority pollutants related to the U.S. Clean Water Act:, Zinc

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

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**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., This product or a component in this product is regulated by a TSCA Section 5 "Significant New Use Rule" (SNUR) or a proposed SNUR and is also subject to TSCA Section 12(B) Export Notification Requirements., See 40 CFR § 721.10135

**TSCA list**

TSCA - 5(a) Significant New Use Rule List of Chemicals: The following substance(s) is/are subject to a Significant New Use Rule:

Alkyl phosphinic acid, metal salt	284685-45-6	See 40 CFR § 721.10135; Final Rule
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US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D): The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

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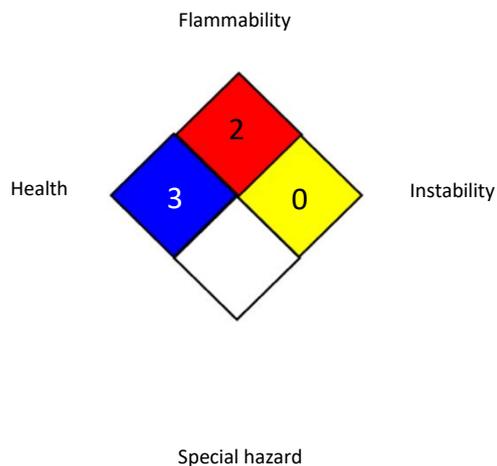
**SECTION 16. OTHER INFORMATION****Further information**

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

AICC - 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); EC<sub>x</sub> - Concentration associated with x% response; EHS - Extremely Hazardous Substance; EL<sub>x</sub> - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErC<sub>x</sub> - 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; IC<sub>50</sub> - 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; LC<sub>50</sub> - Lethal Concentration to 50 % of a test population; LD<sub>50</sub> - 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

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Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;  
vPvB - Very Persistent and Very Bioaccumulative

Observe national and local legal requirements

The EPA has concerns that Exolit OP 950 is toxic to aquatic life. Consequently, the EPA has issued a SNUR under 40 CFR 721, prohibiting predictable or purposeful release of Diethyl Phosphinic acid, Zinc salt in concentration greater than 12 parts per billion in the waters of United States. Consequently, the restrictions stated in 40 CFR 721.90(a)(4), (b)(4) and (c)(4) will apply to this substance.

Handle with care. Organic dusts have the potential to be explosive with static spark or flame initiation.

For additional information, contact Product Stewardship.

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This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

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