SAFETY DATA SHEET

PHENOXETOL

Identification of the company:
Clariant Corporation
4000 Monroe Road
Charlotte, NC 28205
Telephone No.: +1 704 331 7000

Information of the substance/preparation:
Product Stewardship, +1-704-331-7710
Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: PHENOXETOL
Material number: 171091
CAS number: 122-99-6
Synonyms: Product has no synonyms
Primary product use: Raw material for Pet Care
Primary product use: Personal Care Preservatives
Chemical family: 2-Phenoxyethanol

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200
Acute toxicity (Oral) : Category 4
Eye irritation : Category 2A

GHS label elements
Hazard pictograms : 

Signal word : Warning
Hazard statements : H302 Harmful if swallowed.
H319 Causes serious eye irritation.

Precautionary statements : Prevention:
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear eye protection/face protection.

Response:
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water
for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.

**Disposal:**
P501 Dispose of contents/container to an approved waste disposal plant.

**Other hazards**
None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Components**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>122-99-6</td>
<td>90 - 100</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### SECTION 4. FIRST AID MEASURES

**General advice**
Get medical advice/attention if you feel unwell. Remove/Take off immediately all contaminated clothing.

**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 patient 1-2 glasses of water (8-16 oz.) and call a doctor. Never give anything by mouth to an unconscious person. Induce vomiting only at the instructions of a doctor or nurse.

**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.

**Notes to physician**
None known.

### SECTION 5. FIREFIGHTING MEASURES
SAFETY DATA SHEET

PHENOXETOL

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Version : 7 - 6 / USA  Date of printing :10/14/2019

Suitable extinguishing media : Water spray jet
                                Alcohol-resistant foam
                                Carbon dioxide (CO2)
                                Dry powder

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:
                                      Carbon monoxide (CO)
                                      Carbon dioxide (CO2)
                                      Hazardous decomposition products formed under fire conditions.
                                      Burning produces noxious and toxic fumes.

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
                                                Full protective suit

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear suitable protective clothing.
                                                                     Ensure adequate ventilation.
                                                                     Avoid contact with skin and eyes.
                                                                     Wearing appropriate personal protective equipment, contain spill, collect onto inert absorbent, and place in a suitable container.

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
                          If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
                                               Keep in suitable, closed containers for disposal.
                                               Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep away sources of ignition.
                                               Keep away from heat.
                                               Take precautionary measures against build-up of electrostatic charges, e.g. earthing during loading and off-loading operations.
Have fire extinguishers ready before opening the drum.

**Advice on safe handling**
Use only with adequate ventilation and proper protective eyewear, gloves, and clothing.

**Conditions for safe storage**
Keep container tightly closed in a cool, well-ventilated place. Protect from moisture. Keep only in the original container.

**Further information on storage conditions**
Store between 55 F (12 °C) and 110 F (43 °C) to prevent freezing or product deterioration. Keep container closed.

**Materials to avoid**
Keep away from oxidizing agents.

### 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**
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.

**Material**
Fluorinated rubber

**Break through time**
> 480 min

**Glove thickness**
0.7 mm

**Material**
Polyethylene

**Break through time**
> 480 min

**Glove thickness**
0.1 mm

**Material**
Nitrile rubber
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Substance key: 000000056053
Version: 7 - 6 / USA
Revision Date: 09/26/2019
Date of printing: 10/14/2019

Break through time : > 480 min
Glove thickness : 0.4 mm

Eye protection : Safety glasses or chemical splash goggles.
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 : Use only in well-ventilated areas. Remove/Take off immediately all contaminated clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid
Colour : colourless
Odour : weak
Odour Threshold : not tested.
pH : 7 (68 °F / 20 °C)
	Concentration: 10 g/l
Melting point : 52 - 55 °F / 11 - 13 °C
	Data relate to solvent
Boiling point : approximately 471.7 °F / 244.3 °C
	Method: Tested according to Directive 92/69/EEC.
Flash point : 252 °F / 122 °C
Evaporation rate : not tested.
Flammability (solid, gas) : Not applicable
Self-ignition : The substance or mixture is not classified as self heating.
Upper explosion limit / upper flammability limit : 9.0 %(V)
Lower explosion limit / Lower flammability limit : 1.4 %(V)
Vapour pressure : 0.01 hPa (68 °F / 20 °C)
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Version : 7 - 6 / USA

Relative vapour density : not tested.
Relative density : not tested.
Density : approx. 1.11 g/cm3 (68 °F / 20 °C)
Bulk density : not tested.

Solubility(ies)
Water solubility : 24 g/l (68 °F / 20 °C)
Solubility in other solvents : Description: soluble in methanol, ethanol, acetone

Partition coefficient: n-octanol/water
log Pow: 1.2 (73 °F / 23 °C)
Method: OECD Test Guideline 107

Auto-ignition temperature : 887 °F / 475 °C
Method: DIN 51794

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

Viscosity
Viscosity, dynamic : approx. 41 mPa.s (67.6 °F / 19.8 °C)
Method: OECD Test Guideline 114
approx. 19 mPa.s (104.9 °F / 40.5 °C)
Method: OECD Test Guideline 114

Viscosity, kinematic : Not applicable

Explosive properties : Not applicable

Oxidizing properties : not oxidizing

Self-heating substances : The substance or mixture is not classified as self heating.

Surface tension : 70.7 mN/m, 67.8 °F / 19.9 °C

Minimum ignition energy : Not applicable

Particle size : Not applicable

SECTION 10. STABILITY AND REACTIVITY

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

Chemical stability : May form explosive peroxides.
Protect from exposure to air/oxygen.
Protect against light.

Possibility of hazardous : Reactions with oxidising agents.
The substance or mixture does not emit flammable gases in contact with water.

**Conditions to avoid:** Strong oxidizing agents

**Incompatible materials:** Strong acids and oxidizing agents

**Hazardous decomposition products:** When used and handled as intended, none.

### SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

- **Eye contact**
- **Skin contact**
- **Inhalation**
- **Ingestion**
- **Skin Absorption**

#### Acute toxicity

**Components:**

**2-Phenoxyethanol:**

- **Acute oral toxicity:**
  - LD50 (Rat, male and female): 1,840 - 4,070 mg/kg
  - Method: OECD Test Guideline 401
  - GLP: no

- **Acute inhalation toxicity:**
  - LC50 (Rat, male and female): > 1000 mg/m³
  - Exposure time: 14 d
  - Test atmosphere: dust/mist
  - Method: OECD Test Guideline 412
  - GLP: yes

- **Acute dermal toxicity:**
  - LD50 (Rabbit, male and female): > 2,214 mg/kg
  - Method: Other
  - GLP: no
  - Assessment: The substance or mixture has no acute dermal toxicity

**Skin corrosion/irritation**

**Components:**

**2-Phenoxyethanol:**

- **Species:** Rabbit
- **Exposure time:** 4 h
- **Method:** OECD Test Guideline 404
- **Result:** No skin irritation
- **GLP:** no
SAFETY DATA SHEET

PHENOXETOL

Substance key: 000000056053 Revision Date: 09/26/2019
Version : 7-6 / USA Date of printing: 10/14/2019

Serious eye damage/eye irritation

Components:
2-Phenoxyethanol:
Species: rabbit eye
Result: Irritating to eyes.
Exposure time: 15 d
Method: OECD Test Guideline 405
GLP: no

Respiratory or skin sensitisation

Components:
2-Phenoxyethanol:
Test Type: Maximisation Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.
GLP: yes

Germ cell mutagenicity

Product:
Germ cell mutagenicity - No information available.
Assessment

Components:
2-Phenoxyethanol:
Genotoxicity in vitro: Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 20 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Concentration: 43.8 - 1400 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: HGPRT assay
Test system: Chinese hamster lung cells
Concentration: 43.8 - 1400 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
SAFETY DATA SHEET

PHENOXETOL

Substance key: 0000000056053
Revision Date: 09/26/2019
Version: 7.6 / USA
Date of printing: 10/14/2019

GLP: yes

Genotoxicity in vivo
Species: Mouse (male)
Strain: NMRI
Cell type: Bone marrow
Application Route: Intraperitoneal injection
Exposure time: 24 - 48 h
Dose: 1x 125-250-500 mg/kg
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Germ cell mutagenicity - Assessment
It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Carcinogenicity

Product:
Carcinogenicity - Assessment
No information available.

Components:

2-Phenoxyethanol:
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

Product:
Reproductive toxicity - Assessment
No information available.

Components:

2-Phenoxyethanol:
Effects on fertility
Test Type: Two-generation study
Species: Mouse, male and female
Strain: CD1
Application Route: oral (feed)
Dose: 0.25 - 1.25 - 2.5 % in diet
General Toxicity - Parent: NOAEL: 1,875 mg/kg body weight
General Toxicity F1: NOAEL: 375 mg/kg body weight
General Toxicity F2: NOAEL: 375 mg/kg body weight
Method: Other
GLP: yes

Reproductive toxicity - Assessment: No information available.

STOT - single exposure
Components:
2-Phenoxyethanol:
Remarks: no data available

STOT - repeated exposure
Components:
2-Phenoxyethanol:
Remarks: no data available

Repeated dose toxicity
Components:
2-Phenoxyethanol:
Species: Rat, male and female
NOAEL: 369 mg/kg
Application Route: oral (gavage)
Exposure time: 13 w
Number of exposures: daily
Dose: 1250-2500-5000-10000-20000mg/l
Group: yes
Method: OECD Test Guideline 408
GLP: yes

Species: Rat, male and female
NOAEL: 0.0482 mg/l
LOAEL: 0.246 mg/l
Application Route: Inhalation
Exposure time: 14 d
Number of exposures: 6 h/d, 5 days/w
Dose: 40 - 200 - 1000 mg/m3
Group: yes
Method: OECD Test Guideline 412
GLP: yes

Species: Rabbit, male and female
NOAEL: 500 mg/kg
Application Route: Skin contact
Exposure time: 13 w
Number of exposures: 6 h/d, 5 days/w
Dose: 50 - 150 - 500 mg/kg
Group: yes
Method: OECD Test Guideline 411
GLP: yes

Aspiration toxicity

Product:
o no data available

Components:

2-Phenoxyethanol:
o 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: Inhalation of vapours leads to irritation of respiratory tract and mucous membranes, headache, nausea, dizziness, vomiting

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: EG 79/831, Annex V/C

Toxicity to algae/aquatic plants : EC50 (Scenedesmus subspicatus 86.81 sag. green algae): > 100 mg/l
End point: Biomass
Exposure time: 72 h
Test Type: static test
Method: DIN 38412

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): > 1 mg/l
Exposure time: 34 d
Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
- NOEC (Daphnia magna (Water flea)): > 1 mg/l
- Exposure time: 21 d
- Test Type: semi-static test
- Method: OECD Test Guideline 211

Toxicity to microorganisms:
- EC10 (Pseudomonas putida): > 100 mg/l
- Exposure time: 17 h
- Method: DIN 38 412 Part 8

Components:

2-Phenoxyethanol:

Toxicity to fish:
- LC50 (Pimephales promelas (fathead minnow)): 344 mg/l
- Exposure time: 96 h
- Test Type: flow-through test
- Analytical monitoring: yes
- Method: Other
- GLP: no data available

Toxicity to daphnia and other aquatic invertebrates:
- EC50 (Daphnia magna (Water flea)): > 500 mg/l
- Exposure time: 48 h
- Test Type: static test
- Analytical monitoring: no
- Method: OECD Test Guideline 202
- GLP: no
- Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants:
- EC50 (Desmodesmus subspicatus (green algae)): 625 mg/l
- End point: Growth rate
- Exposure time: 72 h
- Test Type: static test
- Analytical monitoring: yes
- GLP: yes
- Remarks: The details of the toxic effect relate to the nominal concentration.

EC50 (Desmodesmus subspicatus (green algae)): 443 mg/l
- End point: Biomass
- Exposure time: 72 h
- Test Type: static test
- Analytical monitoring: yes
- GLP: yes
- Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity):
- NOEC (Pimephales promelas (fathead minnow)): 24 mg/l
- Exposure time: 34 d
- Test Type: flow-through test
- Analytical monitoring: yes
- Method: OECD Test Guideline 210
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
NOEC (Daphnia magna (Water flea)): 9.43 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:
EC50 (activated sludge): > 1,000 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 0.5 h
Test Type: aquatic
Analytical monitoring: no
Method: OECD Test Guideline 209
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to soil dwelling organisms:
Test Type: artificial soil
LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg
Exposure time: 14 d
End point: mortality
Method: OECD Test Guideline 207
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Plant toxicity:
EC50: 107 mg/kg
Exposure time: 19 d
Analytical monitoring: no
Method: OECD Guide-line 208
GLP: yes

EC50: 37 mg/kg
Exposure time: 19 d
Species: Brassica napus
Analytical monitoring: no
Method: OECD Guide-line 208
GLP: yes

EC50: 235 mg/kg
Exposure time: 19 d
Species: Brassica napus
Analytical monitoring: no
Method: OECD Guide-line 208
GLP: yes

Sediment toxicity:
Remarks: Not applicable

Toxicity to terrestrial organisms:
Remarks: Not applicable
Persistence and degradability

Product:
Biodegradability:  Biodegradation: > 70 %
  Exposure time: 15 d
  Method: OECD Test Guideline 301A
  Remarks: Readily biodegradable, according to appropriate OECD test.

Biochemical Oxygen Demand (BOD): Remarks: not available

Chemical Oxygen Demand (COD): Remarks: not available

Dissolved organic carbon (DOC): Remarks: not available

Physico-chemical removability: Remarks: not tested.

Stability in water: Remarks: Hydrolyses on contact with water.

Photodegradation:
  Test Type: air
    Light source: Sunlight
    Sensitiser: OH
    Concentration: 500000 molecules/cm³
    Rate constant: 3,26727E-11 cm³/(molecule*sec)
    Degradation (indirect photolysis): 50 % Degradation half life: 11.8 h
    Method: calculated
    GLP: no

  Test Type: water
    Light source: Other
    Light spectrum: 298 - 400 nm
    Degradation (direct photolysis): 50 % Degradation half life: 5,120 d
    GLP: No information available.

Components:
2-Phenoxyethanol:
Biodegradability: aerobic
  Inoculum: activated sludge
  Concentration: 30 mg/l
  Biochemical Oxygen Demand (BOD)
  Result: Readily biodegradable.
  Biodegradation: 90 %
  Exposure time: 28 d
  Method: OECD Test Guideline 301F
  GLP: yes
aerobic
Inoculum: activated sludge
Concentration: 20 mg DOC/l
Dissolved organic carbon (DOC)
Result: Readily biodegradable.
Biodegradation: > 90 %
Exposure time: 15 d
Method: OECD Test Guideline 301A
GLP: yes

Physico-chemical removability
Remarks: Biodegradable

Stability in water
Test Type: abiotic
Degradation half life (DT50): > 365 d (50 °C) pH: 4 - 9
Method: OECD Test Guideline 111
GLP: yes

Photodegradation
Test Type: air
Light source: Sunlight
Sensitiser: OH
Concentration: 500000 molecules/cm3
Rate constant: 3.26727E-11 cm3/(molecule*sec)
Degradation (indirect photolysis): 50 % Degradation half life: 11.8 h
Method: calculated
GLP: no

Test Type: water
Light source: Other
Light spectrum: 298 - 400 nm
Degradation (direct photolysis): 50 % Degradation half life: 5,120 d
GLP: No information available.

Bioaccumulative potential

Product:
Bioaccumulation: Remarks: Due to the low logPow bioaccumulation is not expected

Components:

2-Phenoxyethanol:
Bioaccumulation: Species: Other
Bioconcentration factor (BCF): 0.35
Method: calculated
GLP: no

Mobility in soil

Product:
Distribution among environmental compartments: Remarks: Based upon the calculated log Koc, adsorption to the soil phase is not expected. The substance does not evaporate into the atmosphere from the surface of water.

Components:
2-Phenoxyethanol:
Distribution among environmental compartments:
- adsorption
  - Medium: water - soil
  - log Koc: 1.6
  - Method: OECD Test Guideline 121

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.

Components:
2-Phenoxyethanol:
Environmental fate and pathways: no data available

Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues: Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

Contaminated packaging: Regulations concerning reuse or disposal of used packaging materials must be observed. Uncontaminated packaging may be reused.
SECTION 14. TRANSPORT INFORMATION

DOT not restricted
IATA not restricted
IMDG not restricted

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

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
Acute toxicity (any route of exposure)
Serious eye damage or eye irritation

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Category</th>
<th>Assigned Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycol ethers</td>
<td>Not</td>
<td>90 - 100 %</td>
</tr>
</tbody>
</table>

Clean Water Act
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.

The components of this product are reported in the following inventories:

TSCA
All components of this product are listed on the TSCA Inventory. However, the primary use of this product is NOT subject to TSCA but rather to FDA and must comply with the FDA regulations. All components are compliant with the TSCA Inventory Notification (Active) rule.
SECTION 16. OTHER INFORMATION

Further information

NFPA 704:

- Flammability
- Health
- Reactivity
- Special hazard

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogenic, Mutagenic 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; EnS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ERX - 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; ICSO - 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; ISH - 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; MS-HA - 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; 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

Do not breathe fumes, vapour.
Avoid contact with skin and eyes.
Wear suitable protective equipment.
Keep container closed when not in use.

Revision Date : 09/26/2019

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.

US / EN