

PHENIRAT®

Version	Revision Date:	SDS Number:	Date of last issue: -
13.0	04/05/2021	105991	Date of first issue: 04/05/2021

SECTION 1. IDENTIFICATION

Product name : PHENIRAT®

Product code : 105991

Manufacturer or supplier's details

Company name of supplier : Symrise , Inc.

Address : 300 North Street
Teterboro NJ 07608

Telephone : (201) 288-3200

Telefax : (201) 288-0843

Emergency telephone : +1-800-535-5053 (ID# 101844) +1-352-323-3500 (Outside US)

Recommended use of the chemical and restrictions on use

Recommended use : Single Chemical

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with 29 CFR 1910.1200**

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical nature : Aromatic Esters

Substance name : Propanoic acid, 2-methyl-, 2-phenoxyethyl ester

CAS-No. : 103-60-6

SECTION 4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.

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| If inhaled | : Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If breathing is irregular or stopped, administer artificial respiration. |
| In case of skin contact | : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician. |
| In case of eye contact | : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : Rinse mouth with water.
Keep respiratory tract clear.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician. |
| Most important symptoms and effects, both acute and delayed | : First aider needs to protect himself. |
| Protection of first-aiders | : First Aid responders should pay attention to self-protection and use the recommended protective clothing |
| Notes to physician | : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
There is no specific antidote available. |
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SECTION 5. FIRE-FIGHTING MEASURES

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| Suitable extinguishing media | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | : High volume water jet |
| Specific hazards during fire fighting | : Do not use a solid water stream as it may scatter and spread fire. |
| Further information | : In the event of fire and/or explosion do not breathe fumes.
Standard procedure for chemical fires.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use a water spray to cool fully closed containers. |
| Special protective equipment for fire-fighters | : In the event of fire, wear self-contained breathing apparatus. |

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SECTION 6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas. |
| Environmental precautions | : | Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up | : | Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal. |
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SECTION 7. HANDLING AND STORAGE

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| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |
| Advice on safe handling | : | Avoid formation of aerosol.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations. |
| Conditions for safe storage | : | Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards. |
| Materials to avoid | : | No special restrictions on storage with other products. |
| Further information on storage stability | : | No decomposition if stored and applied as directed. |
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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

We are not aware of any national exposure limit.

Personal protective equipment

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| Respiratory protection | : | Not required; except in case of aerosol formation. |
| Hand protection | : | |

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| Remarks | : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Wear chemicals-resistant gloves, e.g. safety gloves of nitril (thickness 0.4mm) or of butyl rubber (thickness 0.7mm). |
| Eye protection | : Eye wash bottle with pure water
Tightly fitting safety goggles |
| Skin and body protection | : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Hygiene measures | : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance | : clear liquid |
| Color | : colorless |
| Odor | : characteristic |
| Odor Threshold | : No data available |
| pH | : Not applicable |
| Melting point/freezing point | : < -4 °F / < -20 °C
Method: OECD Test Guideline 102
GLP: yes |
| Boiling point/boiling range | : 527.5 °F / 275.3 °C
(990 hPa)
Method: OECD Test Guideline 103
GLP: yes |
| Flash point | : 230 °F / 110 °C |
| Evaporation rate | : Lower than the evaporation rate of butyl acetate = 1 |
| Self-ignition | : 930 - 948 °F / 499 - 509 °C
1,013 hPa
Autoignition temperature
Method: Directive 440/2008/EG, Annex , A.15.
GLP: yes |
| Upper explosion limit / Upper | : Vapors may form explosive mixtures with air. |

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flammability limit

Lower explosion limit / Lower flammability limit : Vapors may form explosive mixtures with air.

Vapor pressure : 0.005333 hPa / 0.004 mmHg (68 °F / 20 °C)
0.0077 hPa / 0.006 mmHg (77 °F / 25 °C)
Method: OECD Test Guideline 104
GLP: yes

Relative vapor density : not determined

Relative density : 1.0453 - 1.0493 (68 °F / 20 °C)
Method: OECD Test Guideline 109
GLP: yes
relation to density of water at 4°C

Bulk density : Not applicable

Solubility(ies)
Water solubility : 0.196 g/l immiscible (68 °F / 20 °C)
pH: 5.58 - 6.02
Method: OECD Test Guideline 105
GLP: yesPartition coefficient: n-octanol/water : log Pow: 3.2 (75 °F / 24 °C)
Method: OECD 117
GLP: yes

Decomposition temperature : not determined

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : 6.66 mm²/s (68 °F / 20 °C)
Method: OECD Test Guideline 114
GLP: yes3.59 mm²/s (104 °F / 40 °C)
Method: OECD Test Guideline 114
GLP: yes

not determined

Explosive properties : Due to its structural properties, the product is not classified as explosive.

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : 208.26 g/mol

SECTION 10. STABILITY AND REACTIVITY

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Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. Vapors may form explosive mixture with air.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	LD50 (Mouse, male and female): > 2,060 - < 5,150 mg/kg GLP: no
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes

Skin corrosion/irritation

Not classified based on available information.

Product:

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: Mild skin irritation
GLP: No information available.
Dose: 0,5 ml
Concentration: 100 %

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species: Rabbit
Method: OECD Test Guideline 405
Result: No eye irritation
GLP: yes
Dose: 0,1 ML
Concentration: 100 %

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Respiratory or skin sensitization**Skin sensitization**

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Test Type: Local Lymph Node Assay

Species: Mouse

Method: OECD 429

Result: No sensitizing effect.

GLP: yes

Concentration: 100 %

Germ cell mutagenicity

Not classified based on available information.

Product:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: In vivo tests did not show any chromosomal changes.
GLP: No information available.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

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

- Toxicity to fish : LC50 (Zebrafish (*Brachydanio rerio*)): 13.3 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna*): 24 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): 18 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
- NOEC (*Pseudokirchneriella subcapitata* (green algae)): 1.6 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
- Toxicity to microorganisms : EC50 (Activated sludge): > 10,000 mg/l
End point: Respiration inhibition
Test Type: static test
Analytical monitoring: no
Method: OECD 209 / ISO 8192
GLP: yes

Persistence and degradability**Product:**

- Biodegradability : Test Type: Manometric Respirometry Test
Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Biodegradation: 98 %
Exposure time: 28 d
Method: OECD 301F

SAFETY DATA SHEET



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GLP: yes

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : Remarks: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

US State Regulations

SARA 311/312 Hazards : No SARA Hazards

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SECTION 16. OTHER INFORMATION**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 - 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 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

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The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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