

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Trade name : EqStim® (P. acnes Immunostimulant)
Product code : 08890

1.2. Other means of identification

Part Number(s) : 08890|08891|08891-CAN

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Injectable solution
Restrictions on use : For use only on horses

1.4. Supplier's details

Neogen Corporation
620 Leshar Place
Lansing, Michigan 48912
United States of America
T 800.234.5333
sds@neogen.com - <https://www.neogen.com/>

1.5. Emergency phone number

Emergency number : 24 hours:
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

| | | |
|--|------|-----------------------------|
| Flammable liquid, Category 3 | H226 | Flammable liquid and vapor. |
| Carcinogenicity, Category 1A | H350 | May cause cancer. |
| Full text of H statements : see section 16 | | |

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger
Hazard statements (GHS US) : H226 - Flammable liquid and vapor
H350 - May cause cancer.
Precautionary statements (GHS US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/Bond container and receiving equipment.

EqStim® (P. acnes Immunostimulant)

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

P241 - Use explosion-proof equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P370+P378 - In case of fire: Use appropriate media to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

1% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
13.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
1% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|---------|--------------------|---------|--------------------------------------|
| Ethanol | CAS-No.: 64-17-5 | 10 – 15 | Flam. Liq. 1, H224 Carc. 1A, H350 |

Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.
Personal protection for first-aid responders. : First aid workers will be equipped with suitable personal protective equipment.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : None under normal conditions.
Symptoms/effects after skin contact : None under normal conditions.
Symptoms/effects after eye contact : None under normal conditions.
Symptoms/effects after ingestion : None under normal conditions.

EqStim® (P. acnes Immunostimulant)

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Flammable liquid and vapor.
Explosion hazard : No direct explosion hazard.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.
Environmental precautions : Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.2. Methods and materials for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13.

EqStim® (P. acnes Immunostimulant)

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

SECTION 7 Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly.
- Hygiene measures : Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including incompatibilities

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
- Packaging materials : Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

| Ethanol (64-17-5) | |
|--|--|
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Ethanol |
| ACGIH® TLV® STEL | 1880 mg/m ³ |
| | 1000 ppm |
| Remark (ACGIH) | TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) |
| Regulatory reference | ACGIH 2025 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Ethyl alcohol (Ethanol) |
| OSHA PEL TWA | 1900 mg/m ³ |
| | 1000 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| USA - Cal/OSHA - Occupational Exposure Limits | |
| Local name | Ethyl alcohol; ethanol |
| Cal/OSHA PEL (OEL TWA) | 1900 mg/m ³ |
| | 1000 ppm |
| Regulatory reference | California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1) |
| USA - NIOSH - Occupational Exposure Limits | |
| Local name | Ethyl alcohol (Ethanol) |

EqStim® (P. acnes Immunostimulant)

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Ethanol (64-17-5)

| | |
|---------------------------------|---|
| NIOSH REL 10h TWA | 1000 ppm |
| Regulatory reference (US-NIOSH) | OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG)) |

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Liquid |
| Color | : Clear |
| Odor | : Slight alcoholic |
| Odor threshold | : No data available |
| pH | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : 49 °C |
| Flammability (solid, gas) | : Not applicable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20°C | : No data available |
| Relative density | : No data available |
| Solubility | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Explosion limits | : No data available |
| Particle characteristics | : No data available |

EqStim® (P. acnes Immunostimulant)

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

Flammable liquid and vapor.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

| EqStim® (P. acnes Immunostimulant) | |
|------------------------------------|---|
| Unknown acute toxicity (GHS US) | 1% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 13.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 1% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) |
| Ethanol (64-17-5) | |
| LD50 oral rat | 10470 mg/kg (Rat, male and female) (OECD Test Guideline 401) |
| LD50 dermal rabbit | > 2000 mg/kg rabbit, OECD Test Guideline 402 |
| LC50 Inhalation - Rat | 51 mg/l (Rat; 4 h; vapour) (OECD Test Guideline 403) |
| ATE US (oral) | 10470 mg/kg body weight |
| ATE US (vapors) | 51 mg/l/4h |
| ATE US (dust, mist) | 51 mg/l/4h |

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

EqStim® (P. acnes Immunostimulant)

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Carcinogenicity : May cause cancer.

| Ethanol (64-17-5) | |
|--|--|
| NOAEL (chronic,oral,animal/male,2 years) | > 4250 mg/kg body weight (Mouse, male)(Target Organs: Liver)(Oral; 105 weeks; Frequency of treatment: 5 days/week)(OPPTS 870.4200) |
| NOAEL (chronic,oral,animal/female,2 years) | > 4000 mg/kg body weight (Mouse, female)(Target Organs: Liver)(Oral; 105 weeks; Frequency of treatment: 5 days/week) |
| IARC group | 1 - Carcinogenic to humans |

Reproductive toxicity : Not classified

| Ethanol (64-17-5) | |
|---------------------------|--|
| NOAEL (animal/male, F1) | 13.8 (Mouse, male and female)(OECD Test Guideline 416)Reduction in sperm motility. |
| NOAEL (animal/female, F1) | 13.8 (Mouse, male and female)(OECD Test Guideline 416)Reduction in sperm motility. |

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

| Ethanol (64-17-5) | |
|--------------------------|---------------------------|
| LOAEL (oral,rat,90 days) | 3160 mg/kg bodyweight/day |
| NOAEL (oral,rat,28 days) | 1730 mg/kg bodyweight/day |
| NOAEL (oral,rat,90 days) | 3160 mg/kg bodyweight/day |

Aspiration hazard : Not classified

Symptoms/effects after inhalation : None under normal conditions.

Symptoms/effects after skin contact : None under normal conditions.

Symptoms/effects after eye contact : None under normal conditions.

Symptoms/effects after ingestion : None under normal conditions.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

12.2. Persistence and degradability

| EqStim® (P. acnes Immunostimulant) | |
|------------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
| Ethanol (64-17-5) | |
| Persistence and degradability | Readily biodegradable. |

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

EqStim® (P. acnes Immunostimulant)

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

12.5. Other adverse effects





Ozone : Not classified
Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.
Additional information : Flammable vapors may accumulate in the container. Do not re-use empty containers.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT | TDG | IMDG | IATA |
|---|---|--|---|
| 14.1. UN number | | | |
| UN1170 | UN1170 | 1170 | 1170 |
| 14.2. Proper Shipping Name | | | |
| Ethanol solutions | ETHANOL SOLUTION | ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) | Ethanol solution |
| 14.3. Transport hazard class(es) | | | |
| 3 | 3 | 3 | 3 |
|  |  |  |  |
| 14.4. Packing group | | | |
| III | III | III | III |
| 14.5. Environmental hazards | | | |
| Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No |
| No supplementary information available | | | |

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT
UN-No. (DOT) : UN1170

EqStim® (P. acnes Immunostimulant)

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

| | |
|---|--|
| DOT Special Provisions (49 CFR 172.102) | : 24 - Alcoholic beverages containing more than 70 percent alcohol by volume must be transported as materials in Packing Group II. Alcoholic beverages containing more than 24 percent but not more than 70 percent alcohol by volume must be transported as materials in Packing Group III. B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 4b;150 |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 203 |
| DOT Packaging Bulk (49 CFR 173.xxx) | : 242 |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 60 L |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : 220 L |
| DOT Vessel Stowage Location | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. |
| TDG | |
| UN-No. (TDG) | : UN1170 |
| TDG Special Provisions | : 150 - An approved ERAP is required for the dangerous goods referred to in paragraph 7.2(1)(f) of Part 7 (Emergency Response Assistance Plan). |
| Explosive Limit and Limited Quantity Index | : 5 L |
| Excepted quantities (TDG) | : E1 |
| Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index | : 60 L |
| Emergency Response Guide (ERG) Number | : 127 |
| IMDG | |
| Special provision (IMDG) | : 144, 223 |
| Limited quantities (IMDG) | : 5 L |
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : P001, LP01 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T2 |
| Tank special provisions (IMDG) | : TP1 |
| EmS-No. (Fire) | : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS |
| EmS-No. (Spillage) | : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS |
| Stowage category (IMDG) | : A |
| Properties and observations (IMDG) | : Colorless, volatile liquids. Pure ETHANOL: flashpoint 13°C c.c. Explosive limits: 3.3% to 19%. Miscible with water. |
| IATA | |
| Special provision (IATA) | : A3, A58, A180 |
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y344 |
| PCA limited quantity max net quantity (IATA) | : 10L |
| PCA packing instructions (IATA) | : 355 |
| PCA max net quantity (IATA) | : 60L |
| CAO packing instructions (IATA) | : 366 |

EqStim® (P. acnes Immunostimulant)

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

CAO max net quantity (IATA) : 220L
ERG code (IATA) : 3L

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are exempt or present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

No additional information available

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Revision date : 8/13/2025
Issue date : 1/23/2025

Full text of hazard classes and H-statements

| | |
|------|--------------------------------------|
| H224 | Extremely flammable liquid and vapor |
| H226 | Flammable liquid and vapor |
| H350 | May cause cancer. |

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.