

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2017 Rev. 1.0

Product: 12432

Code: Erger

Print Date: June 12, 2017

## SAFETY DATA SHEET

### ERGER

#### SECTION 1: IDENTIFICATION

- 1.1. Product Identifier used on the label  
Trade name: Erger
- 1.2. Other means of identification  
Trade code: 12432
- 1.3. Recommended use of the chemical and restrictions on use:  
Fertilizer
- 1.4. Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:  
Produced and packed by:  
VALAGRO Spa  
Via Cagliari, 1 Zona Industriale  
66041 Atesa (CH) ITALY  
Tel. (+39) 08728811 Fax (+39) 0872881382  
www.valagro.com


Distributed and guaranteed by:  
Valagro USA Inc.  
19500 Hwy 249, suite 245 - Houston TX 77070  
Tel (281) 664 8700 - Fax (281) 664 8701

Competent person responsible for the safety data sheet:  
[regulatory@valagro.com](mailto:regulatory@valagro.com)

- 1.5. Emergency phone number  
Valagro USA Inc  
Tel (281) 664 8700 - Fax (281) 664 8701

#### SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1. Classification of the chemical in accordance with paragraph (d) of §1910.1200;

 Warning, Acute Tox. 4, Harmful if swallowed.

 Danger, Eye Dam. 1, Causes serious eye damage.

- 2.2. Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200:

Hazard pictograms:



Danger

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2017 Rev. 1.0

Product: 12432

Code: Erger

Print Date: June 12, 2017

Harmful if swallowed.  
Causes serious eye damage.

Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear safety goggles and face shield.  
If swallowed: Call a doctor if you feel unwell.  
Rinse mouth.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a doctor  
Dispose of contents/container in accordance with local/regional/national/international regulations

First Aid:

As a general rule, in case of doubt or if symptoms persist, always call a doctor.  
Inhalation : Remove to fresh air. Get medical attention for any breathing difficulty.  
Eye Contact: Rinse cautiously with water for several minutes holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a physician.  
Ingestion : Rinse mouth with water. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person. Immediately call a doctor  
Skin Contact: Remove all contaminated clothing. Rinse with plenty of soap and water.







2.3. Hazards not otherwise classified that have been identified during the classification process:  
None

2.4. Ingredient(s) with unknown acute toxicity:  
None component with unknown acute toxicity is present in the mixture

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

3.1 Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

Qty	Name	Ident. Number	Classification
>= 20% - < 25%	Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl ether	CAS: 166736-08-9 EC: N.A.	 3.1/4/Oral Acute Tox. 4 H302  3.3/1 Eye Dam. 1 H318
>= 15% - < 20%	Ammonium nitrate	CAS: 6484-52-2 EC: 229-347-8	 2.14/3 Ox. Sol. 3 H272  3.3/2 Eye Irrit. 2 H319
>= 15% - < 20%	nitric acid, ammonium calcium salt	CAS: 15245-12-2 EC: 239-289-5	 3.1/4/Oral Acute Tox. 4 H302  3.3/1 Eye Dam. 1 H318

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VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2017 Rev. 1.0

Product: 12432

Code: Erger

Print Date: June 12, 2017

---

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of necessary measures:

#### In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

#### In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

#### In case of Ingestion:

Never give anything by mouth to an unconscious person; if person is conscious rinse mouth with water and then give plenty of water to drink. Do not induce vomiting unless instructed to do so by medical personnel. **OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.**

#### In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

#### Protection of first-aiders:

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

### 4.2. Most important symptoms/effects, acute and delayed:

No data available for the mixture

Possible symptoms that may occur:

Eye contact:

Causes serious eye damage

Symptoms: pain, redness, tearing

Inhalation:

if inhaled, especially at high temperatures, the vapors may be very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Symptoms: cough, shortness of breath

Skin contact:

May be irritant to the skin

Symptoms: Pain, irritation, redness, blistering may occur

Ingestion: Harmful if swallowed. May cause burns to mouth, throat and stomach.

In case of ingestion of large amounts, NO<sub>3</sub>-ions contained in the product can oxidize the iron atoms in hemoglobin making it unable to carry oxygen effectively to the tissues

Symptoms: abdominal pain, confusion, convulsions, nausea, dizziness

### 4.3. Indication of immediate medical attention and special treatment needed:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

---

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2017 Rev. 1.0

Product: 12432

Code: Erger

Print Date: June 12, 2017

---

Treatment:

No specific treatment available.

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## **SECTION 5. FIRE-FIGHTING MEASURES**

### 5.1. Suitable (and unsuitable) extinguishing media.

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

### 5.2. Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces smoke containing carbon oxides, nitrogen oxides

### 5.3. Special protective equipment and precautions for fire-fighters.

Use suitable breathing apparatus, protective clothing, eye protection and gloves resistant to chemicals according to EN469 and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

In case of entry into waterways, soil or drains, inform the responsible authorities

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothes giving a total skin protection, gloves and safety glasses.

See protective measures under point 7 and 8.

Ensure adequate ventilation, move people in a safe place.

Avoid dust generation

Avoid any accumulation of electrostatic charge which may create a hazardous condition and cause an ignition.

### 6.2. Methods and material for containment and cleaning up

Wash with plenty of water.

Pick up the product in clean plastic labeled containers and reuse as fertilizer or dispose in authorized facilities

Material suitable for collecting: inert and non-combustible absorbent material

In case of spills, cover drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities

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## **SECTION 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

---

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2017 Rev. 1.0

Product: 12432

Code: Erger

Print Date: June 12, 2017

---

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep in the original package in a cool well-ventilated place, away from sources of heat

Keep away from food, drink and feed.

Incompatible materials:

Acids, Bases, oxidizing and reducing agents.

Instructions as regards storage premises:

Adequately ventilated premises.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values:

No data available for the mixture.

8.2. Appropriate engineering controls.

It is recommended that the workers wear appropriate gloves, protective glasses

8.3. Individual protection measures, such as personal protective equipment:

Please observe the usual precautionary measures for handling of chemicals.

The personal protective equipment must be compliant to the regulation UNI –EN in force

Eye protection:

Use close fitting safety goggles according to the standard EN 166, don't use eye lens

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., nitrile according to EN 374

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None Known

Environmental exposure controls:

None

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown liquid
Odour:	characteristic
Odour threshold:	N.A.
pH 1% water solution at 68°F:	5.7
Melting point / freezing point:	> 100 °C.
Initial boiling point and boiling range:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Flammability (Solid/gas):	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour pressure:	N.A.
Vapour density:	N.A.
Density:	1.3 Kg/dm <sup>3</sup>
Solubility in water:	soluble

---

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2017 Rev. 1.0

Product: 12432

Code: Erger

Print Date: June 12, 2017

---

Lipid solubility: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.

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## **SECTION 10: STABILITY AND REACTIVITY**

- 10.1. Reactivity  
Stable under normal conditions of storage and use
  - 10.2. Chemical stability  
Stable under normal conditions of storage and use
  - 10.3. Possibility of hazardous reactions  
The product can release gaseous ammonia if in contact with alkaline substances such as lime
  - 10.4. Conditions to avoid  
Avoid heating the product at high temperatures which induce thermal decomposition; the product may release hazardous substances as carbon oxides, nitrogen oxides.
  - 10.5. Incompatible materials  
Acids, Bases, oxidizing and reducing agents.
  - 10.6. Hazardous decomposition products  
In case of fire and high temperatures can develop carbon oxides, nitrogen oxides
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## **SECTION 11: TOXICOLOGICAL INFORMATION**

- 11.1 Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact);  
No data available for the mixture  
information of the main substances found in the mixture:  
Inhalation  
may cause irritation to the respiratory tract;  
If inhaled, especially at high temperatures, the vapors may be very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard.  
Serious effects may be delayed following exposure.  
Ingestion:  
In case of ingestion of large amounts, NO<sub>3</sub>-ions contained in the product can oxidize the iron atoms in hemoglobin making it unable to carry oxygen effectively to the tissues  
Contact with skin:  
May cause irritation to the skin  
Contact with eyes:  
causes serious eye damage
- 11.2 Symptoms related to the physical, chemical and toxicological characteristics:  
Inhalation:  
Symptoms: cough, shortness of breath  
Ingestion:  
Symptoms: vomiting, abdominal pain, gastrointestinal disorders.  
Contact with skin:  
Symptoms: redness, itching, pain.  
Contact with eyes:  
Symptoms include pain, redness, tearing
- 11.3 Delayed and immediate effects and also chronic effects from short- and long-term exposure;  
See section 11.2
- 11.4 Numerical measures of toxicity (such as acute toxicity estimates).

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2017 Rev. 1.0

Product: 12432

Code: Erger

Print Date: June 12, 2017

ATE Oral of mixture is in the range  $> 300 \leq 2000$

Toxicological information of the main substances found in the mixture:

a) acute toxicity:

-Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether - CAS: 166736-08-9

LD50 Oral (rat):  $> 300 - 2000$  mg/Kg

LC50 inhalation: not determined

LD50 dermal: not determined

The product was not tested. The data was derived from products of similar structure and composition.

-Ammonium nitrate CAS: 6484-52-2, EC: 229-347-8

LD50 Oral Rat = 2950 mg/Kg (OECD 401)

LD50 Dermal Rat  $> 5000$  mg/Kg bw (OECD 402)

LC50 inhalation  $> 88.8$  mg/l

-Nitric acid, ammonium calcium salt CAS: 15245-12-2, EC: 239-289-5

LD50 Oral Rat = 500 mg/Kg (OECD 423)

LD50 Dermal Rat  $> 2000$  mg/Kg bw (OECD 402)

b) skin corrosion/irritation:

-Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether CAS: 166736-08-9

Irritation

non-irritant

Other relevant toxicity information:

The product has not been tested. The statement has been derived from products of a similar structure and composition.

-Ammonium nitrate CAS: 6484-52-2, EC: 229-347-8

Non-irritating to the skin

-Nitric acid, ammonium calcium salt CAS: 15245-12-2, EC: 239-289-5

Non-irritating to the skin

c) serious eye damage/irritation:

-Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether CAS: 166736-08

Risk of serious damage to eyes. (OECD

-Ammonium nitrate CAS: 6484-52-2, EC: 229-347-8

Irritant (OECD 405)

-Nitric acid, ammonium calcium salt CAS: 15245-12-2, EC: 239-289-5

Causes serious eye damage (rabbit, OECD 405)

d) respiratory or skin sensitisation:

-Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether CAS: 166736-08

Guinea Pig maximation test: not sensitising (OECD 406)

The product has not been tested. The statement has been derived from products of a similar structure and composition.

-Ammonium nitrate CAS: 6484-52-2, EC: 229-347-8

Skin: No known significant effects or critical hazards.

Respiratory: No known significant effects or critical hazards.

-Nitric acid, ammonium calcium salt CAS: 15245-12-2, EC: 239-289-5

Skin: No known significant effects or critical hazards.

Respiratory system: Not determined.

e) germ cell mutagenicity:

- Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether CAS: 166736-08

N.A.

- Ammonium nitrate CAS: 6484-52-2, EC: 229-347-8

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2017 Rev. 1.0

Product: 12432

Code: Erger

Print Date: June 12, 2017

- No mutagenic effect.
- Nitric acid, ammonium calcium salt CAS: 15245-12-2, EC: 239-289-5  
No mutagenic effect.
- f) carcinogenicity:
  - Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether CAS: 166736-08  
N.A.
  - Ammonium nitrate CAS: 6484-52-2, EC: 229-347-8  
No carcinogenic effect (OECD 453, ammonium sulphate)
  - Nitric acid, ammonium calcium salt CAS: 15245-12-2, EC: 239-289-5  
No carcinogenic effect
- g) reproductive toxicity:
  - Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether CAS: 166736-08  
N.A.
  - Ammonium nitrate CAS: 6484-52-2, EC: 229-347-8  
NOAEL Oral 28-day  $\geq$  1500 mg/Kg bw/d (OECD 422, potassium nitrate)
  - Nitric acid, ammonium calcium salt CAS: 15245-12-2, EC: 239-289-5  
NOAEL Oral Rat 53-day  $\geq$  1500 mg/Kg bw/d (OECD 422)
- h) STOT-single exposure:
  - Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether CAS: 166736-08  
N.A.
  - Ammonium nitrate CAS: 6484-52-2, EC: 229-347-8  
N.A.
  - Nitric acid, ammonium calcium salt CAS: 15245-12-2, EC: 239-289-5  
N.A.
- i) STOT-repeated exposure
  - Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether CAS: 166736-08  
N.A.
  - Ammonium nitrate CAS: 6484-52-2, EC: 229-347-8  
N.A.
  - Nitric acid, ammonium calcium salt CAS: 15245-12-2, EC: 239-289-5  
N.A.
- j) aspiration hazard:
  - Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether CAS: 166736-08  
No hazard is expected under intended use and appropriate handling
  - Ammonium nitrate CAS: 6484-52-2, EC: 229-347-8  
N.A.
  - Nitric acid, ammonium calcium salt CAS: 15245-12-2, EC: 239-289-5  
N.A.

11.5 Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:

None

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

The release of large amounts may cause a decreasing of the pH value and can have negative effects on aquatic environments.



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VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2017 Rev. 1.0

Product: 12432

Code: Erger

Print Date: June 12, 2017

---

- Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether CAS: 166736-08
  - Ecotoxicity
  - Toxicity to fish:  
LC50 (96 h) 10 - 100 mg/l, Brachydanio rerio (OECD Guideline 203)
  - Aquatic invertebrates:  
EC50 (48 h) 10 - 100 mg/l, Daphnia magna
  - Aquatic plants:  
EC50 (72 h) 10 - 100 mg/l, Scenedesmus subspicatus
  
- Ammonium nitrate CAS: 6484-52-2, EC: 229-347-8
  - LC50 Fresh water Fish 48 h = 447 mg/l
  - EC50 Fresh water Daphnia 48 h = 100 mg/l
  - EC50 Marine water Aquatic plants 10 days = 1700 mg/l
  - Inhibition of microbial activity:  
EC50 3-hour:> 1000 mg/l; NOEC: 180 mg/l
  
- nitric acid, ammonium calcium salt CAS: 15245-12-2, EC: 239-289-5
  - LC50 Fresh water Fish 48 h = 447 mg/l
  - EC50 Fresh water Daphnia 48 h > 100 mg/l
  - EC50 Fresh water Algae 72 h > 100 mg/l
  - Inhibition of microbial activity: 3-hour EC50:> 1000 mg/l; NOEC: 180 mg/l
  - Algae: 72-hour EC50:> 1000 mg/l; NOEC: 100 mg/l
  - PNEC: water: 0.45 mg / L; sea water 0.045 mg/l

#### 12.2. Persistence and degradability:

- Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether CAS: 166736-08
  - Elimination information:
  - >= 90 % Bismuth-active substance (OECD 303A)
  - Analogous: Assessment derived from products with similar chemical character.
  - > 60 % CO<sub>2</sub> formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C)
  - Readily biodegradable.
- Ammonium nitrate CAS: 6484-52-2, EC: 229-347-8
  - Not relevant for inorganic substances
- nitric acid, ammonium calcium salt CAS: 15245-12-2, EC: 239-289-5
  - Not relevant for inorganic substances

#### 12.3. Bioaccumulative potential

The product does not contain any bioaccumulative substances

#### 12.4. Mobility in soil

This product may move with surface or groundwater flows because its water solubility

#### 12.5. Other adverse effects (such as hazardous to the ozone layer).

None known

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## SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

- Product :Recover if possible. In so doing, comply with the local and national regulations currently in force.

---

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2017 Rev. 1.0

Product: 12432

Code: Erger

Print Date: June 12, 2017

---

- Packaging: Dispose according to regulations.

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## SECTION 14: TRANSPORT INFORMATION

UN number

Not classified as dangerous in the meaning of transport regulations.

UN proper shipping name

N.A.

Transport hazard class(es)

N.A.

Packing group

N.A.

Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

Most important toxic component: ERGER

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

N.A.

Special precautions

N.A.

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## SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations specific for the product in question.

Hazard Communication Standard (HCS) Haz Com 2012

OSHA, 29 CFR 1910.1200(g) and Appendix D. United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), third revised edition, United Nations, 2009.

Hazard Communication Standard

United Nations Recommendations on the Transport of Dangerous Goods.

OSHA Permissible Exposure Limit

[29 CFR 1926.55 Appendix A](#)

American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV)

National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limit (REL)

Chemical Abstracts Service (CAS) Registry Number

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## SECTION 16: OTHER INFORMATION , INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of preparation of the SDS: revision 1.0, date 2017-06-08.

This document was prepared by a competent person who has received appropriate training.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

N.A. no data available

ADR: European Agreement concerning the International Carriage of

---

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2017 Rev. 1.0

Product: 12432

Code: Erger

Print Date: June 12, 2017

---

CAS:	Dangerous Goods by Road. Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.