

Printing date 01/16/2024

Reviewed on 01/05/2024

## 1 Identification

- · Product identifier
- · Trade name: Ethyl 3 methylthiopropionate 1% ETOH natural
- · Product number: 1921
- · Application of the substance / the mixture Flavoring Ingredients
- · Details of the supplier of the safety data sheet

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- Manufacturer/Supplier: Advanced Biotech 10 Taft Road Totowa, NJ 07512 USA
- Information department: Product Safety Department productsafety@adv-bio.com
- Emergency telephone number: Infotrac: 1-800-535-5053 (Domestic) & 1-352-323-3500 (International) Email: responders@infotrac.net & During normal business hours: 1-973-339-6242

# 2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

Flammable Liquids 2 H225 Highly flammable liquid and vapor.



Eye Irritation 2A H319 Causes serious eye irritation.

GHS label elements

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



Signal word Danger

• **Hazard statements** H225 Highly flammable liquid and vapor.

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<sup>-</sup> US



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#### Trade name: Ethyl 3 methylthiopropionate 1% ETOH natural (Continuation of page 1) H319 Causes serious eye irritation. · Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. P241 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 3 Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH Health = 2FIRE 3 Fire = 3 Reactivity = 0REACTIVITY 0 Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable.

## 3 Composition/information on ingredients

· Chemical characterization: Mixtures

• **Description:** Mixture of the substances listed below with nonhazardous additions.

| · Dangerous compon | ents:  |         |
|--------------------|--|---------|
|                    |  | 50-100% |
| EINECS: 200-578-6  | 🚸 Flammable Liquids 2, H225; 🚸 Eye Irritation 2A, H319 |         |
|                    | Ethyl-(3-Methylthio) Propionate                        | ≤2.5%   |
| EINECS: 236-370-7  | Flammable Liquids 4, H227                              |         |

## 4 First-aid measures

### · Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. **After swallowing:** If symptoms persist consult doctor.

- · Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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#### Trade name: Ethyl 3 methylthiopropionate 1% ETOH natural

(Continuation of page 2)

#### Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.
- Additional information
- Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. · Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. · Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals · PAC-1: CAS: 64-17-5 Ethanol 1,800 ppm · PAC-2: CAS: 64-17-5 Ethanol 3300\* ppm PAC-3: CAS: 64-17-5 Ethanol 15000\* ppm

## 7 Handling and storage

- · Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.

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- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

- · Control parameters
- Components with limit values that require monitoring at the workplace:
- The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
- At this time, the remaining constituent has no known exposure limits.

### CAS: 64-17-5 Ethanol

- PEL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm
- REL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm
- TLV Short-term value: 1000 ppm
- Additional information: The lists that were valid during the creation were used as a basis.

### · Exposure controls

A3

- Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.
- Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### Penetration time of glove material

The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.

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#### Printing date 01/16/2024 Trade name: Ethyl 3 methylthiopropionate 1% ETOH natural (Continuation of page 4) · Eye protection: Tightly sealed goggles 9 Physical and chemical properties Information on basic physical and chemical properties General Information · Appearance: Form: Liquid Color: According to product specification · Odor: According to product specification · Odor threshold: Not determined. · pH-value: Not determined. · Change in condition Melting point/Melting range: Undetermined. **Boiling point/Boiling range:** Undetermined. · Flash point: 14.2 °C (57.6 °F) · Flammability (solid, gaseous): Highly flammable. 371 °C (699.8 °F) · Auto igniting: · Decomposition temperature: Not determined. · Ignition temperature: Product is not selfigniting. · Danger of explosion: Product is not explosive. However, formation of explosive air/ vapor mixtures are possible. · Explosion limits: Lower: 2.6 Vol % Upper: 12.6 Vol %

· Vapor pressure at 20 °C (68 °F): 0.1 hPa Density at 20 °C (68 °F): 0.81-0.83 g/cm3 (6.75945-6.92635 lbs/gal) Relative density Not determined. Vapor density Not determined. Evaporation rate Not determined. · Solubility in / Miscibility with Water: Fully miscible. · Partition coefficient (n-octanol/water): Not determined. · Viscosity: **Dynamic:** Not determined. Kinematic: Not determined. (Continued on page 6)

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### Trade name: Ethyl 3 methylthiopropionate 1% ETOH natural

|   |   | (Continuation of page 5 |
|---|---|-------------------------|
| <ul> <li>Solvent content:<br/>Organic solvents:<br/>VOC content:</li> </ul> | 99.0 %<br>99.00 %<br>801.9-821.7 g/l / 6.69-6.86 lb/gal | 0                       |
| Solids content:   | 0.0 %   | (/)                     |
| · Other information   | No further relevant information available.              |                         |

### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### 11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification:

### CAS: 64-17-5 Ethanol

Oral LD50 7,060 mg/kg (rat)

Inhalative LC50/4 h 20,000 mg/l (rat)

#### Primary irritant effect:

- · on the skin: No irritant effect.
- · on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations:
- Irritant
- Carcinogenic categories
- · IARC (International Agency for Research on Cancer)
- CAS: 64-17-5 Ethanol

### • NTP (National Toxicology Program)

None of the ingredients is listed.

### OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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ADVANCED

## Safety Data Sheet acc. to OSHA HCS (29 CFR § 1910.1200)

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### Trade name: Ethyl 3 methylthiopropionate 1% ETOH natural

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### 12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · **Bioaccumulative potential** No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### 13 Disposal considerations

#### · Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

| · UN-Number                                    |  |
|--|--|
| · DOT, IMDG, IATA                              | UN1170                                   |
| · UN proper shipping name                      |  |
| DOT  | Ethanol solutions                        |
| ·IMDG  | ETHANOL SOLUTION (ETHYL ALCOHO SOLUTION) |
|  | ETHANOL SOLUTION                         |
| <ul> <li>Transport hazard class(es)</li> </ul> |  |
| ·DOT   |  |
| I COMPACT COMP                                 |  |
| 3  |  |



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|   | (Continuation of page 7   |
|---|---|
| Label                                       | 3   |
| IMDG, IATA                                  |   |
|   |   |
| 3   |   |
| Class                                       | 3 Flammable liquids   |
| Label                                       | 3   |
| Packing group                               |   |
| DOT, IMDG, IATA                             |   |
| Environmental hazards:                      | Not applicable.   |
| Special precautions for user                | Warning: Flammable liquids  |
| Hazard identification number (Kemler code): |   |
| EMS Number:                                 | F-E,S-D   |
| Stowage Category                            | A   |
| Transport in bulk according to Annex II of  |   |
| MARPOL73/78 and the IBC Code                | Not applicable.   |
| Transport/Additional information:           |   |
| DOT   |   |
| Quantity limitations                        | On passenger aircraft/rail: 5 L   |
|   | On cargo aircraft only: 60 L  |
| IMDG  |   |
| Limited quantities (LQ)                     | 1L  |
| Excepted quantities (EQ)                    | Code: E2  |
|   | Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| UN "Model Regulation":                      | UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II  |

| 40.0.  | 1-1     |         |        |
|--------|---------|---------|--------|
| 15 Keg | lulator | v intor | mation |

 $^{\cdot}$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $^{\cdot}$  Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

### · Hazardous Air Pollutants

None of the ingredients is listed.

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### Trade name: Ethyl 3 methylthiopropionate 1% ETOH natural

| Proposition 65   | (Continuation of pa   | ge 8)          |
|--|---|----------------|
| •  |   | -              |
|  | own to cause cancer:  |                |
|  | redients is listed.   |                |
|  | own to cause reproductive toxicity for females:   |                |
|  | redients is listed.   |                |
|  | own to cause reproductive toxicity for males:   |                |
| None of the ingr   | redients is listed.   |                |
|  | wn to cause developmental toxicity:   |                |
| CAS: 64-17-5 E   | Ethanol   |                |
| Carcinogenic o   | categories  |                |
| EPA (Environm  | nental Protection Agency)   |                |
| None of the ingr   | redients is listed.   |                |
| TLV (Threshold   | d Limit Value)  |                |
| CAS: 64-17-5 E   | Ethanol   | A3             |
| NIOSH-Ca (Nat  | ional Institute for Occupational Safety and Health)   |                |
| None of the ingr   | radiants is listed  |                |
| <b>GHS label elem</b><br>Pictograms on<br>symbol on a wh<br>The product is c   | nents<br>label shall be in the shape of a square set at a point and shall include a black ha<br>ite background with a red frame sufficiently wide to be clearly visible.<br>classified and labeled according to the Globally Harmonized System (GHS).   | zard           |
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| GHS label elem<br>Pictograms on<br>symbol on a whi<br>The product is of<br>Hazard pictogr<br>GHS02 GHS0  | nents<br>label shall be in the shape of a square set at a point and shall include a black has<br>ite background with a red frame sufficiently wide to be clearly visible.<br>classified and labeled according to the Globally Harmonized System (GHS).<br>rams  | zard           |
| GHS label elem<br>Pictograms on<br>symbol on a wh<br>The product is of<br>Hazard pictogr<br>GHS02 GHS0<br>Signal word Da<br>Hazard statem  | nents<br>label shall be in the shape of a square set at a point and shall include a black has<br>ite background with a red frame sufficiently wide to be clearly visible.<br>classified and labeled according to the Globally Harmonized System (GHS).<br>rams  | zard           |
| GHS label elem<br>Pictograms on<br>symbol on a wh<br>The product is of<br>Hazard pictogr<br>GHS02 GHS0<br>Signal word Da<br>Hazard statemod<br>H225 Highly flar  | nents<br>label shall be in the shape of a square set at a point and shall include a black has<br>ite background with a red frame sufficiently wide to be clearly visible.<br>classified and labeled according to the Globally Harmonized System (GHS).<br>rams<br>07<br>anger<br>ents<br>mmable liquid and vapor.   | zard           |
| GHS label elem<br>Pictograms on<br>symbol on a wh<br>The product is of<br>Hazard pictogr<br>GHS02 GHS0<br>Signal word Da<br>Hazard statemon<br>H225 Highly flar<br>H319 Causes so  | hents<br>label shall be in the shape of a square set at a point and shall include a black has<br>ite background with a red frame sufficiently wide to be clearly visible.<br>classified and labeled according to the Globally Harmonized System (GHS).<br>rams<br>07<br>anger<br>ents<br>mmable liquid and vapor.<br>erious eye irritation.   | zard           |
| GHS label elem<br>Pictograms on<br>symbol on a whi<br>The product is of<br>Hazard pictogr<br>GHS02 GHS0<br>Signal word Da<br>Hazard statemon<br>H225 Highly flar<br>H319 Causes so<br>Precautionary<br>P210  | hents<br>label shall be in the shape of a square set at a point and shall include a black has<br>ite background with a red frame sufficiently wide to be clearly visible.<br>classified and labeled according to the Globally Harmonized System (GHS).<br>rams<br>07<br>anger<br>ents<br>mmable liquid and vapor.<br>erious eye irritation.   | zard           |
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| GHS label elem<br>Pictograms on<br>symbol on a whi<br>The product is of<br>Hazard pictogr<br>GHS02 GHS0<br>Signal word Da<br>Hazard stateme<br>H225 Highly flar<br>H319 Causes so<br>Precautionary<br>P210<br>P241                                 | hents<br>label shall be in the shape of a square set at a point and shall include a black has<br>ite background with a red frame sufficiently wide to be clearly visible.<br>classified and labeled according to the Globally Harmonized System (GHS).<br>rams<br>07<br>anger<br>ents<br>mmable liquid and vapor.<br>erious eye irritation.<br>statements<br>Keep away from heat/sparks/open flames/hot surfaces No smoking.<br>Use explosion-proof electrical/ventilating/lighting/equipment.<br>53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin   |                |
| GHS label elem<br>Pictograms on<br>symbol on a whi<br>The product is of<br>Hazard pictogr<br>GHS02 GHS0<br>Signal word Da<br>Hazard statem<br>H225 Highly flar<br>H319 Causes so<br>Precautionary<br>P210<br>P241<br>P303+P361+P3                  | <ul> <li>nents label shall be in the shape of a square set at a point and shall include a black has ite background with a red frame sufficiently wide to be clearly visible. classified and labeled according to the Globally Harmonized System (GHS). ams </li> <li>or</li> <li>anger ents mmable liquid and vapor. erious eye irritation. statements Keep away from heat/sparks/open flames/hot surfaces No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. 153 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin water/shower. 138 If in eyes: Rinse cautiously with water for several minutes. Remove contact lense</li></ul>  | with           |
| GHS label elem<br>Pictograms on<br>symbol on a whi<br>The product is of<br>Hazard pictogr<br>GHS02 GHS0<br>Signal word Da<br>Hazard stateme<br>H225 Highly flar<br>H319 Causes so<br>Precautionary<br>P210<br>P241<br>P303+P361+P3<br>P305+P351+P3 | <ul> <li>nents <ul> <li>label shall be in the shape of a square set at a point and shall include a black hat ite background with a red frame sufficiently wide to be clearly visible.</li> <li>classified and labeled according to the Globally Harmonized System (GHS).</li> </ul> </li> <li>ams <ul> <li>or</li> </ul> </li> <li>or</li> </ul> <li>or</li> <li>anger ents <ul> <li>mmable liquid and vapor.</li> <li>erious eye irritation.</li> <li>statements <ul> <li>Keep away from heat/sparks/open flames/hot surfaces No smoking.</li> <li>Use explosion-proof electrical/ventilating/lighting/equipment.</li> <li>if on skin (or hair): Take off immediately all contaminated clothing. Rinse skin water/shower.</li> <li>if in eyes: Rinse cautiously with water for several minutes. Remove contact lense present and easy to do. Continue rinsing.</li> </ul></li></ul></li> | with           |
| GHS label elem<br>Pictograms on<br>symbol on a whi<br>The product is of<br>Hazard pictogr<br>GHS02 GHS0<br>Signal word Da<br>Hazard stateme<br>H319 Causes so<br>P210<br>P241<br>P303+P361+P3<br>P305+P351+P3<br>P403+P235                         | <ul> <li>nents label shall be in the shape of a square set at a point and shall include a black has ite background with a red frame sufficiently wide to be clearly visible. classified and labeled according to the Globally Harmonized System (GHS). rams </li> <li>o7 anger ents mmable liquid and vapor. erious eye irritation. statements Keep away from heat/sparks/open flames/hot surfaces No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. t53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin water/shower. t38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lense present and easy to do. Continue rinsing. Store in a well-ventilated place. Keep cool.</li></ul>   | with<br>es, if |
| GHS label elem<br>Pictograms on<br>symbol on a whi<br>The product is of<br>Hazard pictogr<br>GHS02 GHS0<br>Signal word Da<br>Hazard stateme<br>H225 Highly flar<br>H319 Causes so<br>Precautionary<br>P210<br>P241<br>P303+P361+P3<br>P305+P351+P3 | <ul> <li>nents <ul> <li>label shall be in the shape of a square set at a point and shall include a black hat ite background with a red frame sufficiently wide to be clearly visible.</li> <li>classified and labeled according to the Globally Harmonized System (GHS).</li> </ul> </li> <li>ams <ul> <li>or</li> </ul> </li> <li>or</li> </ul> <li>or</li> <li>anger ents <ul> <li>mmable liquid and vapor.</li> <li>erious eye irritation.</li> <li>statements <ul> <li>Keep away from heat/sparks/open flames/hot surfaces No smoking.</li> <li>Use explosion-proof electrical/ventilating/lighting/equipment.</li> <li>if on skin (or hair): Take off immediately all contaminated clothing. Rinse skin water/shower.</li> <li>if in eyes: Rinse cautiously with water for several minutes. Remove contact lense present and easy to do. Continue rinsing.</li> </ul></li></ul></li> | with<br>es, if |

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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|   | (Continuation of page 9)                                |
|---|---|
| Relevant phrases  |   |
| H225 Highly flammable liquid and vapor.   |   |
| H227 Combustible liquid.  |   |
| H319 Causes serious eye irritation.   |   |
| Department issuing SDS: Product Safety Departmen  | it 🖉 🖉  |
| Contact:  |   |
| Product Safety Department   |   |
| productsafety@adv-bio.com   |   |
| Date of preparation / last revision 01/16/2024  |   |
| Abbreviations and acronyms:   |   |
| ADR: Accord relatif au transport international des marchandises d   | angereuses par route (European Agreement Concerning the |
| nternational Carriage of Dangerous Goods by Road)   |   |
| MDG: International Maritime Code for Dangerous Goods  |   |
| DOT: US Department of Transportation  |   |
| ATA: International Air Transport Association  |   |
| EINECS: European Inventory of Existing Commercial Chemical Sub<br>ELINCS: European List of Notified Chemical Substances   | ostances  |
| CAS: Chemical Abstracts Service (division of the American Chemic  | cal Society)  |
| NFPA: National Fire Protection Association (USA)  | alooloty  |
| HMIS: Hazardous Materials Identification System (USA)   |   |
| VOC: Volatile Organic Compounds (USA, EU)   |   |
| _C50: Lethal concentration, 50 percent  |   |
| LD50: Lethal dose, 50 percent   |   |
| PBT: Persistent, Bioaccumulative and Toxic  |   |
| /PvB: very Persistent and very Bioaccumulative<br>NIOSH: National Institute for Occupational Safety                       |   |
| DSHA: Occupational Safety & Health  |   |
| ILV: Threshold Limit Value  |   |
| PEL: Permissible Exposure Limit   |   |
| REL: Recommended Exposure Limit   |   |
| Flammable Liquids 2: Flammable liquids – Category 2   |   |
| Flammable Liquids 4: Flammable liquids – Category 4<br>Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A |   |

P.O.