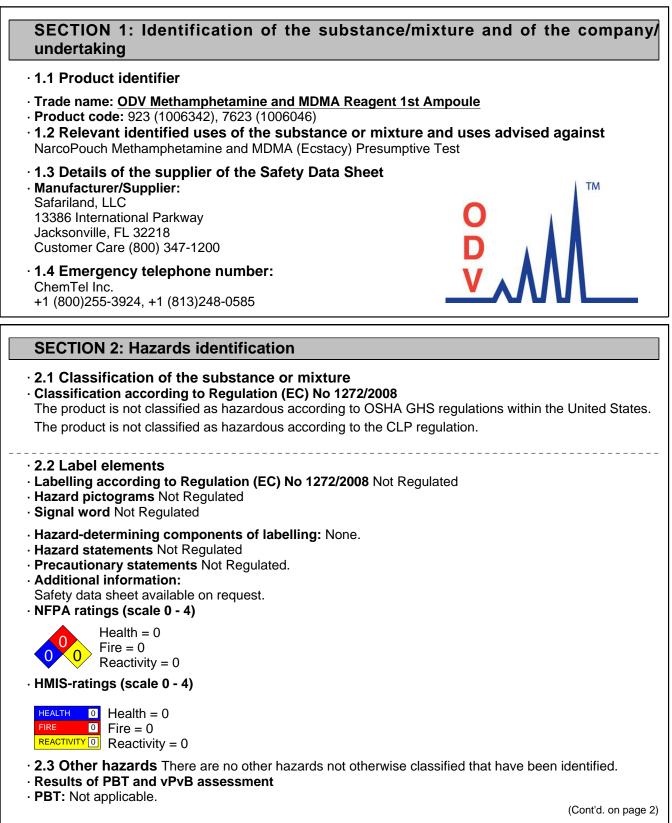
Printing date: January 14, 2016



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Trade name: ODV Methamphetamine and MDMA Reagent 1st Ampoule

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components:

 CAS: 497-19-8
 sodium carbonate

 EINECS: 207-838-8
 index number: 011-005-00-2

 Additional information:

· Additional information:

For the wording of the listed Hazard Statements refer to section 16.

For the listed ingredient(s), the identity and exact percentages are being withheld as a trade secret.

SECTION 4: First aid measures

4.1 Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- Rinse with warm water.

If skin irritation is experienced, consult a doctor.

• After eye contact: Remove contact lenses if worn.

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

- After swallowing: Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** Slight irritant effect on skin and mucous membranes. Slight irritant effect on eyes. Gastric or intestinal disorders when ingested.

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

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: None.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

(Cont'd. on page 3)

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· Additional information: No further relevant information available.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation

For large spills, wear protective clothing.

- · 6.2 Environmental precautions No special measures required.
- · 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.

• 6.4 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.

SECTION 7: Handling and storage

- ·7.1 Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility:

Do not store together with acids.

Store away from foodstuffs.

• Further information about storage conditions: Keep container tightly sealed.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- DNELs: No further relevant information available.
- PNECs: No further relevant information available.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Avoid contact with the eyes and skin.

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· Respiratory protection:

Not required under normal conditions of use. For spills, respiratory protection may be advisable.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. • **Eye protection:**



Safety glasses

• **Body protection:** Protective work clothing

- Limitation and supervision of exposure into the environment: No special requirements.
- · Risk management measures: No special requirements.

| SECTION 9: Physical and chemical properties | | |
|--|---|------------------|
| · 9.1 Information on basic physica | I and chemical properties | |
| · Appearance | | |
| Form: | Liquid | |
| Colour: | Colourless | |
| · Odour: | Odourless | |
| · Odour threshold: | Not determined. | |
| · pH-value: | Not determined. | |
| Melting point/Melting range: | Not determined. | |
| Boiling point/Boiling range: | 100 °C (212 °F) | |
| · Flash point: | Not applicable. | |
| · Flammability (solid, gaseous): | Not applicable. | |
| · Auto/Self-ignition temperature: | Not determined. | |
| · Decomposition temperature: | Not determined. | |
| · Self-igniting: | Product is not self-igniting. | |
| · Danger of explosion: | Product does not present an explosion hazard. | |
| · Explosion limits | | |
| Lower: | Not determined. | |
| Upper: | Not determined. | |
| · Vapour pressure at 20 °C (68 °F): | 23 hPa (17 mm Hg) | |
| · Density at 20 °C (68 °F): | 1,15 g/cm ³ (9,597 lbs/gal) | |
| · Relative density: | Not determined. | |
| | | (Cont'd. on page |

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| | | (Cont'd. from page 4) |
|--|--|-----------------------|
| · Vapour density: | Not determined. | |
| Evaporation rate: | Not determined. | |
| Solubility in / Miscibility with | | |
| water: | Not miscible or difficult to mix. | |
| · Partition coefficient (n-octanol/ | water): Not determined. | |
| · Viscosity | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| • 9.2 Other information | No further relevant information available. | |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- · 10.3 Possibility of hazardous reactions Reacts with acids.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials No further relevant information available.
- 10.6 Hazardous decomposition products No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification: None.
- · Primary irritant effect
- · Skin corrosion/irritation: Slight irritant effect on skin and mucous membranes.
- · Serious eye damage/irritation: Slight irritant effect on eyes.
- Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

• Germ cell mutagenicity: Based on available data, the classification criteria are not met.

· Carcinogenicity: Based on available data, the classification criteria are not met.

• **Reproductive toxicity:** Based on available data, the classification criteria are not met.

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- STOT-single exposure: Based on available data, the classification criteria are not met.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Smaller quantities can be disposed of with household waste.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

| · 14.1 UN-Number | | |
|-----------------------------------|---------------|--|
| · DOT, ADR, IMDG, IATA | Not Regulated | |
| · 14.2 UN proper shipping name | | |
| · DOT, ADR, IMDG, IATA | Not Regulated | |
| · 14.3 Transport hazard class(es) | | |
| · DOT, ADR, IMDG, IATA | | |
| Class | Not Regulated | |
| · 14.4 Packing group | | |
| · DOT, ADR, IMDG, IATA | Not Regulated | |

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| | (Cont'd. from page 6 |
|---|---|
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Ann | ex II |
| of Marpol and the IBC Code | Not applicable. |
| | |
| SECTION 15: Regulatory information | Ì |
| 15.1 Safety, health and environmental or mixture United States (USA) SARA | regulations/legislation specific for the substanc |
| · Section 355 (extremely hazardous substanc | es): |
| None of the ingredients are listed. | |
| · Section 313 (Specific toxic chemical listings | s): |
| None of the ingredients are listed. | |
| · TSCA (Toxic Substances Control Act): | |
| All ingredients are listed. | |
| · Proposition 65 (California): | |
| · Chemicals known to cause cancer: | |
| None of the ingredients are listed. | |
| · Chemicals known to cause reproductive to | cicity for females: |
| None of the ingredients are listed. | |
| · Chemicals known to cause reproductive to | cicity for males: |
| None of the ingredients are listed. | |
| · Chemicals known to cause developmental t | oxicity: |
| None of the ingredients are listed. | |
| · Carcinogenic Categories | |
| · EPA (Environmental Protection Agency) | |
| None of the ingredients are listed. | |
| · IARC (International Agency for Research or | i Cancer) |
| | |

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

· Canada

· Canadian Domestic Substances List (DSL)

All ingredients are listed.

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· Canadian Ingredient Disclosure list (limit 0,1%)

None of the ingredients are listed.

Canadian Ingredient Disclosure list (limit 1%)

497-19-8 sodium carbonate

· Other regulations, limitations and prohibitive regulations

• Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients are listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

· Relevant phrases

H319 Causes serious eye irritation.

Abbreviations and acronyms: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety **OSHA: Occupational Safety & Health** Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 · Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue (Cont'd. on page 9)

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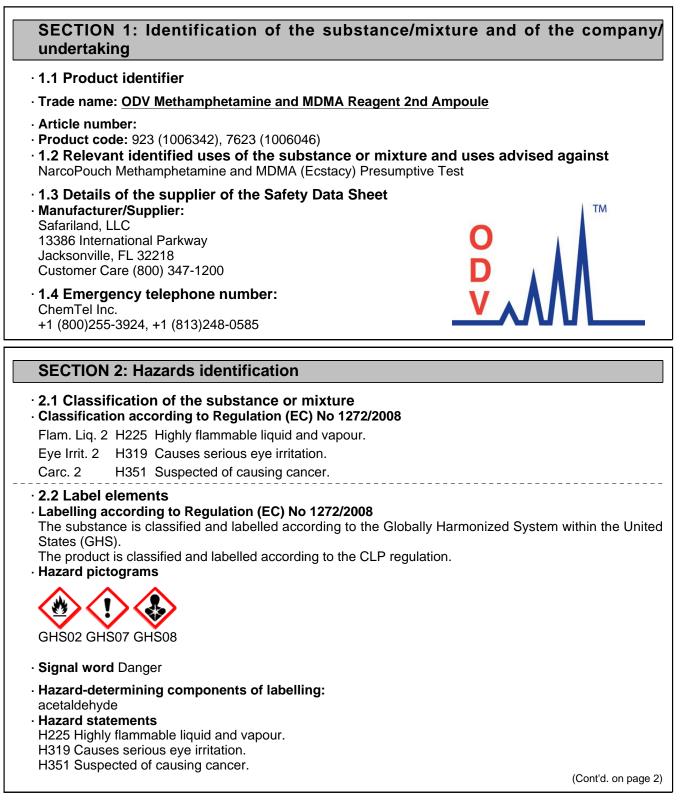
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Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com

Printing date: January 14, 2016



OSHA GHS

Printing date: January 14, 2016

Revision: January 14, 2016

Trade name: ODV Methamphetamine and MDMA Reagent 2nd Ampoule (Cont'd. from page 1) Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash thoroughly after handling. P264 Use personal protective equipment as required. P281 Keep container tightly closed. P233 P370+P378 In case of fire: Use for extinction: CO2, powder or water spray. P308+P313 IF exposed or concerned: Get medical advice/attention. P403+P235 Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international P501 regulations. · NFPA ratings (scale 0 - 4) Health = 1Fire = 4Reactivity = 0· HMIS-ratings (scale 0 - 4) 1 Health = 1 HEALTH FIRE ⁴ Fire = 4 Reactivity = 0 * - Indicates a long term health hazard from repeated or prolonged exposures. • 2.3 Other hazards There are no other hazards not otherwise classified that have been identified. · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components:

| CAS: 75-07-0 | acetaldehyde | 🐼 Flam. Lig. 1, H224 | 10-25% | |
|----------------------------|--------------|---------------------------------------|--------|--|
| EINECS: 200-836-8 | | 💩 Carc. 2, H351 | | |
| Index number: 605-003-00-6 | | 🚯 Eye Irrit. 2, H319; STOT SE 3, H335 | | |

· Additional information:

For the wording of the listed Hazard Statements refer to section 16.

For the listed ingredient(s), the identity and exact percentages are being withheld as a trade secret.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

(Cont'd. on page 3)

OSHA GHS

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Trade name: ODV Methamphetamine and MDMA Reagent 2nd Ampoule (Cont'd. from page 2) · After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. · After eye contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately. · 4.2 Most important symptoms and effects, both acute and delayed Couahina Breathing difficulty Irritant to eyes. Dizziness Gastric or intestinal disorders. Nausea in case of ingestion. Slight irritant effect on skin and mucous membranes. · Hazards: Limited evidence of a carcinogenic effect. May cause respiratory irritation. · 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available. **SECTION 5: Firefighting measures** 5.1 Extinguishing media · Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. · For safety reasons unsuitable extinguishing agents: None. · 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. · 5.3 Advice for firefighters · Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit. · Additional information: Eliminate all ignition sources if safe to do so.

Use large quantities of foam as it is partially destroyed by the product.

SECTION 6: Accidental release measures

 • 6.1 Personal precautions, protective equipment and emergency procedures Use respiratory protective device against the effects of fumes/dust/aerosol.
 Wear protective equipment. Keep unprotected persons away.
 Ensure adequate ventilation
 Keep away from ignition sources.

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Protect from heat.

- · 6.2 Environmental precautions Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

· 6.4 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.

SECTION 7: Handling and storage

• **7.1 Precautions for safe handling** Prevent formation of aerosols. Avoid splashes or spray in enclosed areas. Use only in well ventilated areas.

• Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
 Provide ventilation for receptacles.
 Avoid storage near extreme heat, ignition sources or open flame.
 Information about storage in one common storage facility:
- Store away from foodstuffs. Store away from oxidising agents.

• Further information about storage conditions: Keep container tightly sealed.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

75-07-0 acetaldehyde

- PEL (USA) Long-term value: 360 mg/m³, 200 ppm
- REL (USA) See Pocket Guide Apps. A and C
- TLV (USA) Ceiling limit: 45 mg/m³, 25 ppm
- EL (Canada) Ceiling limit: 25 ppm
 - IARC 2B
- EV (Canada) Ceiling limit: 25 ppm
- **DNELs:** No further relevant information available.

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Trade name: ODV Methamphetamine and MDMA Reagent 2nd Ampoule (Cont'd. from page 4) · PNECs: No further relevant information available. · 8.2 Exposure controls · Personal protective equipment: · General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. · Respiratory protection: Not required under normal conditions of use. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable. · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. · Eye protection: Safety glasses · Body protection: Protective work clothing · Limitation and supervision of exposure into the environment: No further relevant information available.

• Risk management measures: See Section 7 for additional information.

| • 9.1 Information on basic physi | cal and chemical properties | |
|----------------------------------|-----------------------------|------------------|
| · Appearance Form: | Liquid | |
| Colour: | Colourless | |
| · Odour: | Pungent | |
| · Odour threshold: | Not determined. | |
| · pH-value: | Not determined. | |
| · Melting point/Melting range: | Not determined. | |
| · Boiling point/Boiling range: | >35 °C (>95 °F) (Estimated) | |
| · Flash point: | <23 °C (<73 °F) (Estimated) | |
| · Flammability (solid, gaseous): | Not applicable. | |
| | | (Cont'd. on page |

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| | (Cont'd. from page 5) |
|--|---|
| · Auto/Self-ignition temperature: | Not determined. |
| · Decomposition temperature: | Not determined. |
| · Self-igniting: | Product is not self-igniting. |
| · Danger of explosion: | Product is not explosive. However, formation of explosive air/ vapour mixtures are possible. |
| · Explosion limits Lower: Upper: | Not determined. Not determined. |
| · Vapour pressure: | Not determined. |
| Density at 20 °C (68 °F): Relative density: Vapour density: Evaporation rate: | 0,96 g/cm³ (8,011 lbs/gal) Not determined. Not determined. Not determined. |
| Solubility in / Miscibility with water: | Fully miscible. |
| · Partition coefficient (n-octanol/wat | ter): Not determined. |
| Viscosity Dynamic: Kinematic: 9.2 Other information | Not determined. Not determined. No further relevant information available. |

SECTION 10: Stability and reactivity

• **10.1 Reactivity** No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous reactions

Flammable.

Reacts with oxidising agents.

Used empty containers may contain product gases which form explosive mixtures with air. Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised. Toxic fumes may be released if heated above the decomposition point.

• **10.4 Conditions to avoid** Keep ignition sources away - Do not smoke.

Store away from oxidising agents.

- · 10.5 Incompatible materials No further relevant information available.
- · 10.6 Hazardous decomposition products Carbon monoxide and carbon dioxide

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(Cont'd. from page 6)

| SECTION 11: To | oxicological information | |
|---|---|---------|
| | on toxicological effects | |
| Acute toxicity: Bas | sed on available data, the classification criteria are not met. | |
| LD/LC50 values re | levant for classification: | |
| 75-07-0 acetaldehy | rde | |
| Oral LD50 | 661 mg/kg (rat) | |
| Inhalative LC50/4h | 37 mg/l (rat) | |
| · Primary irritant eff | ect | |
| Skin corrosion/irri | tation: Slight irritant effect on skin and mucous membranes. | |
| Serious eye dama | | |
| Causes serious eye | Irritation. I sensitisation: Based on available data, the classification criteria are not met. | |
| | | ļ. |
| · Carcinogenic cate | - | |
| • | I Agency for Research on Cancer): | |
| 75-07-0 acetaldehy | rde | |
| • NTP (National Tox | icology Program): | |
| 75-07-0 acetaldehy | rde | |
| OSHA-Ca (Occupa | tional Safety & Health Administration): | |
| None of the ingredie | ents are listed. | |
| Repeated dose tox Germ cell mutager Carcinogenicity: Suspected of causin Reproductive toxic STOT-single expose STOT-repeated ex | te toxicity, irritation and corrosivity): Irritating to respiratory system. ticity: Suspected of causing cancer. nicity: Based on available data, the classification criteria are not met. ty: Based on available data, the classification criteria are not met. sure: Based on available data, the classification criteria are not met. posure: Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. | |
| SECTION 12: E | cological information | |
| 12.2 Persistence 12.3 Bioaccumul 12.4 Mobility in s Additional ecologi General notes: | o further relevant information available. and degradability No further relevant information available. ative potential No further relevant information available. oil No further relevant information available. cal information: ted product or large quantities of it to reach ground water, water course or s | sewa |
| system. | | |
| | (Cont'd o | n no ac |

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(Cont'd. from page 7) Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

· 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

| · 14.1 UN-Number | |
|--------------------------------------|---|
| · DOT, ADR, IMDG, IATA | UN1993 |
| \cdot 14.2 UN proper shipping name | |
| Limited Quantity for package gal). | ges less than 30 kg (66 lb) and inner packagings less than 1 L (0 |
| · DOT | Flammable liquids, n.o.s. (Acetaldehyde solution) |
| | 1993 FLAMMABLE LIQUID, N.O.S. (Acetaldehyd |
| · ADR | solution) |
| · ADR · IMDG | |

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| | (Cont'd. from page 8) |
|---|--|
| · 14.3 Transport hazard class(es) | |
| ·DOT | |
| | |
| | 3 Flammable liquids. |
| ·Label | 3 |
| · ADR | |
| | |
| · Class · Label | 3 (F1) Flammable liquids. |
| | ····· |
| · IMDG, IATA | |
| Class | 3 Flammable liquids. |
| · Label | 3 |
| · 14.4 Packing group · DOT, ADR, IMDG, IATA | 11 |
| · 14.5 Environmental hazards: · Marine pollutant: | No |
| · 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: | Warning: Flammable liquids. 30 F-E,S-E |
| • 14.7 Transport in bulk according to Annex I | |
| of Marpol and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| ADR Limited quantities (LQ) Transport category Tunnel restriction code | 1L 2 D/E |

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SECTION 15: Regulatory information · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · United States (USA) · SARA · Section 355 (extremely hazardous substances): None of the ingredients are listed. · Section 313 (Specific toxic chemical listings): 75-07-0 acetaldehyde • TSCA (Toxic Substances Control Act): All ingredients are listed. · Proposition 65 (California): · Chemicals known to cause cancer: 75-07-0 acetaldehyde · Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed. · Chemicals known to cause developmental toxicity: None of the ingredients are listed. · Carcinogenic Categories · EPA (Environmental Protection Agency) 75-07-0 acetaldehyde B2 · IARC (International Agency for Research on Cancer) 75-07-0 acetaldehyde 1 NIOSH-Ca (National Institute for Occupational Safety and Health) 75-07-0 acetaldehyde · Canada Canadian Domestic Substances List (DSL) All ingredients are listed. · Canadian Ingredient Disclosure list (limit 0,1%) None of the ingredients are listed. Canadian Ingredient Disclosure list (limit 1%) 75-07-0 acetaldehyde · Other regulations, limitations and prohibitive regulations · Substances of very high concern (SVHC) according to REACH, Article 57 None of the ingredients are listed.

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• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

· Relevant phrases

H224 Extremely flammable liquid and vapour.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

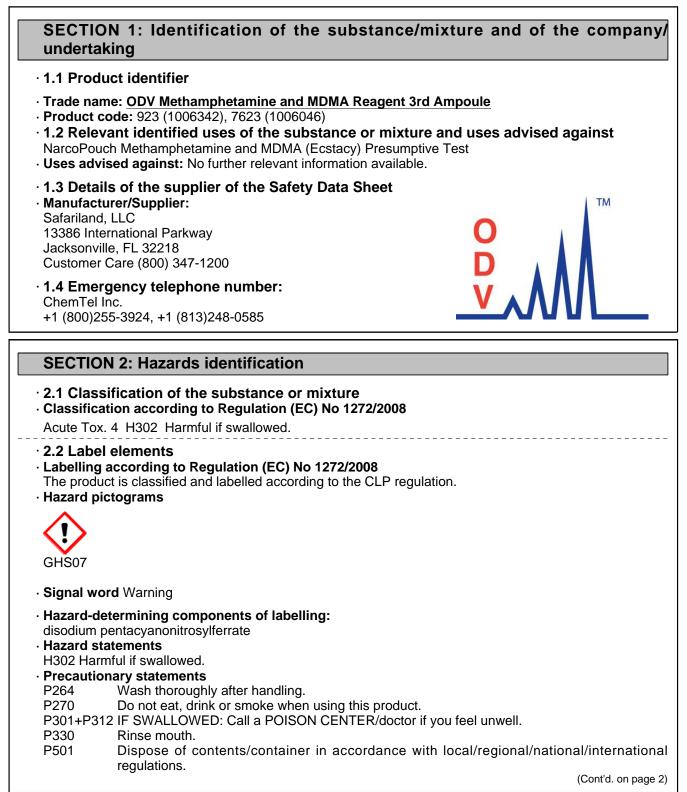
Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health Flam. Liq. 1: Flammable liquids, Hazard Category 1 Flam. Liq. 2: Flammable liquids, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Carc. 2: Carcinogenicity, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com

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· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)

HEALTHIHealth = 1FIREIFire = 0REACTIVITYIReactivity = 0

• 2.3 Other hazards There are no other hazards not otherwise classified that have been identified.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components:

CAS: 14402-89-2 disodium pentacyanonitrosylferrate Oracle Acute Tox. 3, H301 2,5-10% EINECS: 238-373-9

· Additional information:

For the wording of the listed Hazard Statements refer to section 16.

For the listed ingredient(s), the identity and exact percentages are being withheld as a trade secret.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Remove contact lenses if worn.

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

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

· 4.2 Most important symptoms and effects, both acute and delayed

Gastric or intestinal disorders.

Methaemoglobinaemia

• Hazards: Harmful if swallowed.

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• **4.3 Indication of any immediate medical attention and special treatment needed** Contains sodium nitroprusside. Consult literature for specific antidotes.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents: None.
- 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters

Protective equipment:

- Wear self-contained respiratory protective device.
- Wear fully protective suit.
- · Additional information: No further relevant information available.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation

For large spills, wear protective clothing.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

- · 6.2 Environmental precautions Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.
- 6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Prevent formation of aerosols.

- Avoid splashes or spray in enclosed areas.
- Information about fire and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- Requirements to be met by storerooms and receptacles:
- Avoid storage near extreme heat, ignition sources or open flame. • Information about storage in one common storage facility: Store away from foodstuffs.
- Do not store together with acids.

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• Further information about storage conditions: Keep container tightly sealed.

· 7.3 Specific end use(s) No further relevant information available.

| SECTION 8: Exposure controls/personal protection | | |
|---|--|--|
| · 8.1 Control parameters | | |
| · Ingredients with limit values that require monitoring at the workplace: | | |
| 14402-89-2 disodium pentacyanonitrosylferrate | | |
| REL (USA) Ceiling limit: 5* mg/m ³ , 4,7* ppm as CN; *10-min | | |
| TLV (USA) Ceiling limit: 5 mg/m³, 4,7 ppm as CN; Skin | | |
| DNELs: No further relevant information available. PNECs: No further relevant information available. | | |
| 8.2 Exposure controls Personal protective equipment: General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Do not inhale dust / smoke / mist. Respiratory protection: Not required under normal conditions of use. For spills, respiratory protection may be advisable. Protection of hands: | | |
| Protective gloves | | |
| The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. • Eye protection: | | |
| Safety glasses | | |
| Body protection: Protective work clothing Limitation and supervision of exposure into the environment: No further relevant information available. Risk management measures: See Section 7 for additional information. | | |

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| SECTION 9: Physical and chemical properties | |
|--|---|
| • 9.1 Information on basic physica | |
| · Appearance | |
| Form: | Liquid |
| Colour: | Light brown |
| · Odour: | Odourless |
| · Odour threshold: | Not determined. |
| · pH-value: | Not determined. |
| · Melting point/Melting range: | Not determined. |
| · Boiling point/Boiling range: | 100 °C (212 °F) |
| · Flash point: | Not applicable. |
| · Flammability (solid, gaseous): | Not applicable. |
| · Auto/Self-ignition temperature: | Not determined. |
| · Decomposition temperature: | Not determined. |
| · Self-igniting: | Product is not self-igniting. |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Explosion limits | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| · Vapour pressure at 20 °C (68 °F): | 23 hPa (17 mm Hg) |
| · Density at 20 °C (68 °F): | 1 g/cm ³ (8,345 lbs/gal) |
| · Relative density: | Not determined. |
| · Vapour density: | Not determined. |
| · Evaporation rate: | Not determined. |
| Solubility in / Miscibility with | |
| water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/wate | er): Not determined. |
| · Viscosity | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

• **10.1 Reactivity** No further relevant information available.

No decomposition if used and stored according to specifications.

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^{· 10.2} Chemical stability

[•] Thermal decomposition / conditions to be avoided:

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· 10.3 Possibility of hazardous reactions

Contact with acids releases toxic gases.

Reacts with strong oxidising agents.

Toxic fumes may be released if heated above the decomposition point.

· 10.4 Conditions to avoid No further relevant information available.

· 10.5 Incompatible materials No further relevant information available.

· 10.6 Hazardous decomposition products Hydrogen cyanide (prussic acid)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

Acute toxicity:

Harmful if swallowed.

· LD/LC50 values relevant for classification:

14402-89-2 disodium pentacyanonitrosylferrate

Oral LD50 99 mg/kg (rat)

Primary irritant effect

· Skin corrosion/irritation: Slight irritant effect on skin and mucous membranes.

· Serious eye damage/irritation: Slight irritant effect on eyes.

• Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Acute effects (acute toxicity, irritation and corrosivity): Harmful if swallowed.

• Germ cell mutagenicity: Based on available data, the classification criteria are not met.

· Carcinogenicity: Based on available data, the classification criteria are not met.

• Reproductive toxicity: Based on available data, the classification criteria are not met.

• STOT-single exposure: Based on available data, the classification criteria are not met.

• STOT-repeated exposure: Based on available data, the classification criteria are not met.

• Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity: No further relevant information available.

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.

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- · Additional ecological information:
- · General notes:

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

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

| SECTION 14: Transport information | | |
|---|-----------------|--|
| · 14.1 UN-Number | | |
| · DOT, ADR, IMDG, IATA | Not Regulated | |
| 14.2 UN proper shipping name | | |
| · DOT, ADR, IMDG, IATA | Not Regulated | |
| 14.3 Transport hazard class(es) | | |
| · DOT, ADR, IMDG, IATA | | |
| · Class | Not Regulated | |
| · 14.4 Packing group | | |
| · DOT, ADR, IMDG, IATA | Not Regulated | |
| 14.5 Environmental hazards: | | |
| · Marine pollutant: | No | |
| 14.6 Special precautions for user | Not applicable. | |
| · 14.7 Transport in bulk according to Annex II | | |
| of Marpol and the IBC Code | Not applicable. | |
| | | |

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| SECTION 15: Regulatory information | |
|---|--------------------|
| 15.1 Safety, health and environmental regulations/legislation specific or mixture | c for the substanc |
| · United States (USA) · SARA | |
| SANA Section 355 (extremely hazardous substances): | |
| None of the ingredients are listed. | |
| · Section 313 (Specific toxic chemical listings): | |
| 14402-89-2 disodium pentacyanonitrosylferrate | |
| TSCA (Toxic Substances Control Act): | |
| All ingredients are listed. | |
| · Proposition 65 (California): | |
| · Chemicals known to cause cancer: | |
| None of the ingredients are listed. | |
| · Chemicals known to cause reproductive toxicity for females: | |
| None of the ingredients are listed. | |
| · Chemicals known to cause reproductive toxicity for males: | |
| 14402-89-2 disodium pentacyanonitrosylferrate | |
| Chemicals known to cause developmental toxicity: | |
| None of the ingredients are listed. | |
| · Carcinogenic Categories | |
| · EPA (Environmental Protection Agency) | |
| 14402-89-2 disodium pentacyanonitrosylferrate | |
| · IARC (International Agency for Research on Cancer) | |
| None of the ingredients are listed. | |
| · NIOSH-Ca (National Institute for Occupational Safety and Health) | |
| None of the ingredients are listed. | |
| · Canada | |
| · Canadian Domestic Substances List (DSL) | |
| All ingredients are listed. | |
| · Canadian Ingredient Disclosure list (limit 0,1%) | |
| None of the ingredients are listed. | |
| · Canadian Ingredient Disclosure list (limit 1%) | |
| None of the ingredients are listed. | |
| · Other regulations, limitations and prohibitive regulations | |
| · Substances of very high concern (SVHC) according to REACH, Article 57 | |
| None of the ingredients are listed. | |
| | (Cont'd. on page |

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• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

· Relevant phrases

H301 Toxic if swallowed.

Abbreviations and acronyms: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com