



# ADENOSINE 5'-TRIPHOSPHATE, LITHIUM SALT (U-15N5, 98%) CHEM PURITY >90% (IN SOLUTION)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/11/2020

Revision date:

:

Version: 1.0

NLM-3987-SL

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixtures  
Product name : ADENOSINE 5'-TRIPHOSPHATE, LITHIUM SALT (U-15N5, 98%) CHEM PURITY >90% (IN SOLUTION)  
Product code : NLM-3987-SL

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : For professional use only

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810  
USA

USA: 1-800-322-1174 Int: 1-978-749-8000  
[cilsales@isotope.com](mailto:cilsales@isotope.com) [www.isotope.com](http://www.isotope.com)

### Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)  
International: 1-703-741-5970 (24 hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

#### GHS-US classification

Not classified

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

No labeling applicable

#### GHS-US labeling

No labeling applicable

### 2.3. Other hazards

No additional information available

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### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name                                                                | Product identifier                                                | %      | Classification according to Directive 67/548/EEC |
|---------------------------------------------------------------------|-------------------------------------------------------------------|--------|--------------------------------------------------|
| WATER UNLABELED                                                     | (CAS-No.) 7732-18-5<br>(EC-No.) 231-791-2                         | 96.878 | Not classified                                   |
| ADENOSINE 5'-DIPHOSPHATE, LITHIUM SALT (U-15N5, 98%) CHEM PUR. >90% | (CAS-No.) 31008-64-7 (Unlabeled)<br>(EC Index-No.)                | 3.046  | Not classified                                   |
| TRIS HYDROCHLORIDE                                                  | (CAS-No.) 1185-53-1 (Unlabeled)<br>(EC-No.) 214-684-5 (Unlabeled) | 0.076  | Not classified                                   |

| Name                                                                | Product identifier                                                | %      | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------------------------------------------------|-------------------------------------------------------------------|--------|-----------------------------------------------------------------|
| WATER UNLABELED                                                     | (CAS-No.) 7732-18-5<br>(EC-No.) 231-791-2                         | 96.878 | Not classified                                                  |
| ADENOSINE 5'-DIPHOSPHATE, LITHIUM SALT (U-15N5, 98%) CHEM PUR. >90% | (CAS-No.) 31008-64-7 (Unlabeled)<br>(EC Index-No.)                | 3.046  | Not classified                                                  |
| TRIS HYDROCHLORIDE                                                  | (CAS-No.) 1185-53-1 (Unlabeled)<br>(EC-No.) 214-684-5 (Unlabeled) | 0.076  | Not classified                                                  |

| Name                                                                | Product identifier               | %      | GHS-US classification |
|---------------------------------------------------------------------|----------------------------------|--------|-----------------------|
| WATER UNLABELED                                                     | (CAS-No.) 7732-18-5              | 96.878 | Not classified        |
| ADENOSINE 5'-DIPHOSPHATE, LITHIUM SALT (U-15N5, 98%) CHEM PUR. >90% | (CAS-No.) 31008-64-7 (Unlabeled) | 3.046  | Not classified        |
| TRIS HYDROCHLORIDE                                                  | (CAS-No.) 1185-53-1 (Unlabeled)  | 0.076  | Not classified        |

Full text of R- and H- phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |                                                                                                                                                    |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.                                                   |
| First-aid measures after inhalation   | : When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention. |
| First-aid measures after skin contact | : Wash with plenty of soap and water. Get immediate medical advice/attention.                                                                      |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes.                                                                                                 |
| First-aid measures after ingestion    | : Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.                                 |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |                                                                       |
|-------------------------------------|-----------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : May be harmful if inhaled. May cause respiratory irritation.        |
| Symptoms/effects after skin contact | : May be harmful in contact with skin. May cause moderate irritation. |
| Symptoms/effects after eye contact  | : May cause eye irritation.                                           |
| Symptoms/effects after ingestion    | : May be harmful if swallowed.                                        |

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

|                                |                                                                                                                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.                                                           |

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### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Avoid breathing vapors, mist, gas. Avoid dust formation.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

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

For containment : Dike and contain spill. Clean up any spills as soon as possible, using an absorbent material to collect it.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Avoid all eye and skin contact and do not breathe vapor and mist. Keep away from sources of ignition - No smoking.

Precautions for safe handling : Provide adequate ventilation to minimize dust and/or vapor concentrations.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a well-ventilated place. Keep container tightly closed.

Storage conditions : Store in freezer (-20°C). Protect from light.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Additional information : Contains no substances with occupational exposure limits

#### 8.2. Exposure controls

Appropriate engineering controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing : Wear suitable protective clothing and gloves.

Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear eye protection. Chemical goggles or face shield with safety glasses.

Skin and body protection : Wear suitable protective clothing, gloves and eye/face protection.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.

Environmental exposure controls : Avoid release to the environment.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

*The properties listed below are for the solvent, the main component of this mixture.*

Physical state : Liquid

Appearance : Liquid

Molecular mass : 18.02 g/mol

Color : Colorless

Odor : No data available

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|                                             |                              |
|---------------------------------------------|------------------------------|
| Odor threshold                              | : No data available          |
| pH                                          | : 6.0 - 8.0 at 25 °C (77 °F) |
| Relative evaporation rate (butyl acetate=1) | : No data available          |
| Melting point                               | : 0 °C (32.0 °F)             |
| Freezing point                              | : 0 °C (32.0 °F)             |
| Boiling point                               | : 100 °C (212.0 °F)          |
| Flash point                                 | : No data available          |
| Auto-ignition temperature                   | : No data available          |
| Decomposition temperature                   | : No data available          |
| Flammability (solid, gas)                   | : No data available          |
| Vapor pressure                              | : No data available          |
| Relative vapor density at 20 °C             | : No data available          |
| Relative density                            | : No data available          |
| Specific gravity / density                  | : 1 g/ml at 20 °C (68 °F)    |
| Solubility                                  | : Water: Completely miscible |
| Log Pow                                     | : No data available          |
| Log Kow                                     | : No data available          |
| Viscosity, kinematic                        | : No data available          |
| Viscosity, dynamic                          | : No data available          |
| Explosive properties                        | : No data available          |
| Oxidizing properties                        | : No data available          |
| Explosion limits                            | : No data available          |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable if stored under recommended conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Phosphorus oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                                                    |                                  |
|----------------------------------------------------|----------------------------------|
| Acute toxicity                                     | : Not classified                 |
| Skin corrosion/irritation                          | : pH: 6.0 - 8.0 at 25 °C (77 °F) |
| Serious eye damage/irritation                      | : pH: 6.0 - 8.0 at 25 °C (77 °F) |
| Respiratory or skin sensitization                  | : Not classified                 |
| Germ cell mutagenicity                             | : Not classified                 |
| Carcinogenicity                                    | : Not classified                 |
| Reproductive toxicity                              | : Not classified                 |
| Specific target organ toxicity – single exposure   | : Not classified                 |
| Specific target organ toxicity – repeated exposure | : Not classified                 |
| Aspiration hazard                                  | : Not classified                 |

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|                                                     |                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Potential Adverse human health effects and symptoms | : Central nervous system depression. Nausea. Headache. Vomiting. Narcosis. Damage to heart. This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. |
| Symptoms/effects after inhalation                   | : May be harmful if inhaled. May cause respiratory irritation.                                                                                                                                                                                                                                                                                            |
| Symptoms/effects after skin contact                 | : May be harmful in contact with skin. May cause moderate irritation.                                                                                                                                                                                                                                                                                     |
| Symptoms/effects after eye contact                  | : May cause eye irritation.                                                                                                                                                                                                                                                                                                                               |
| Symptoms/effects after ingestion                    | : May be harmful if swallowed.                                                                                                                                                                                                                                                                                                                            |

## SECTION 12: Ecological information

### 12.1. Toxicity

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

#### TRIS HYDROCHLORIDE (1185-53-1 (Unlabeled))

|                                |                                              |
|--------------------------------|----------------------------------------------|
| EC50 Daphnia 1                 | > 100 mg/l Daphnia magna (Water flea) - 48 h |
| EC50 other aquatic organisms 1 | > 1000 Other microorganisms - 3 h            |
| ErC50 (algae)                  | Other microorganisms - 3 h                   |

### 12.2. Persistence and degradability

#### TRIS HYDROCHLORIDE (1185-53-1 (Unlabeled))

|                               |                  |                                  |
|-------------------------------|------------------|----------------------------------|
| Persistence and degradability | Biodegradability | Result: - Readily biodegradable. |
|-------------------------------|------------------|----------------------------------|

### 12.3. Bioaccumulative potential

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                                                                                                  |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional legislation (waste)               | : Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.                                 |
| Product/Packaging disposal recommendations | : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. |
| Ecology - waste materials                  | : Dispose of as unused product.                                                                                                                                  |

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.3. Additional information

|                               |                                                                        |
|-------------------------------|------------------------------------------------------------------------|
| Other information             | : No supplementary information available.                              |
| Special transport precautions | : Not classified as dangerous in the meaning of transport regulations. |

### Overland transport

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

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### 14.4. Environmental hazards

Other information : No supplementary information available.

### 14.5. Special precautions for user

Special transport precautions : Not classified as dangerous in the meaning of transport regulations.

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### ADENOSINE 5'-TRIPHOSPHATE, LITHIUM SALT (U-15N5, 98%) CHEM PURITY >90% (IN SOLUTION)

|                                                    |                                                                              |
|----------------------------------------------------|------------------------------------------------------------------------------|
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302. |
|----------------------------------------------------|------------------------------------------------------------------------------|

|                                       |                                                                              |
|---------------------------------------|------------------------------------------------------------------------------|
| SARA Section 313 - Emission Reporting | Not subject to reporting requirements of the United States SARA Section 313. |
|---------------------------------------|------------------------------------------------------------------------------|

#### WATER UNLABELED (7732-18-5)

|                                                    |                                                                              |
|----------------------------------------------------|------------------------------------------------------------------------------|
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302. |
|----------------------------------------------------|------------------------------------------------------------------------------|

|                                       |                                                                              |
|---------------------------------------|------------------------------------------------------------------------------|
| SARA Section 313 - Emission Reporting | Not subject to reporting requirements of the United States SARA Section 313. |
|---------------------------------------|------------------------------------------------------------------------------|

#### ADENOSINE 5'-DIPHOSPHATE, LITHIUM SALT (U-15N5, 98%) CHEM PUR. >90% (31008-64-7 (Unlabeled))

|                                                    |                                                                              |
|----------------------------------------------------|------------------------------------------------------------------------------|
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302. |
|----------------------------------------------------|------------------------------------------------------------------------------|

|                                       |                                                                              |
|---------------------------------------|------------------------------------------------------------------------------|
| SARA Section 313 - Emission Reporting | Not subject to reporting requirements of the United States SARA Section 313. |
|---------------------------------------|------------------------------------------------------------------------------|

### 15.2. International regulations

#### CANADA

#### ADENOSINE 5'-TRIPHOSPHATE, LITHIUM SALT (U-15N5, 98%) CHEM PURITY >90% (IN SOLUTION)

Not listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

#### ADENOSINE 5'-TRIPHOSPHATE, LITHIUM SALT (U-15N5, 98%) CHEM PURITY >90% (IN SOLUTION)(I)

|                                                       |    |
|-------------------------------------------------------|----|
| U.S. - California - Proposition 65 - Carcinogens List | No |
|-------------------------------------------------------|----|

|                                                             |    |
|-------------------------------------------------------------|----|
| U.S. - California - Proposition 65 - Developmental Toxicity | No |
|-------------------------------------------------------------|----|

|                                                                     |    |
|---------------------------------------------------------------------|----|
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No |
|---------------------------------------------------------------------|----|

|                                                                   |    |
|-------------------------------------------------------------------|----|
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No |
|-------------------------------------------------------------------|----|

|                            |                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------|
| State or local regulations | U.S. - Pennsylvania - RTK (Right to Know) List<br>U.S. - New Jersey - Right to Know Hazardous Substance List |
|----------------------------|--------------------------------------------------------------------------------------------------------------|

#### WATER UNLABELED (7732-18-5)

|                                                       |                                                             |                                                                     |                                                                   |                                  |
|-------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
|-------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|

|    |    |    |    |  |
|----|----|----|----|--|
| No | No | No | No |  |
|----|----|----|----|--|

#### TRIS HYDROCHLORIDE (1185-53-1 (Unlabeled))

|                                                       |                                                             |                                                                     |                                                                   |                                  |
|-------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
|-------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|

|    |    |    |    |  |
|----|----|----|----|--|
| No | No | No | No |  |
|----|----|----|----|--|

# ADENOSINE 5'-TRIPHOSPHATE, LITHIUM SALT (U-15N5, 98%) CHEM PURITY >90% (IN SOLUTION)

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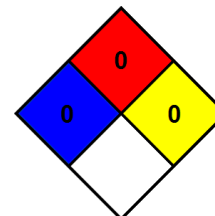
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| ADENOSINE 5'-DIPHOSPHATE, LITHIUM SALT (U-15N5, 98%) CHEM PUR. >90% (31008-64-7 (Unlabeled))                 |                                                             |                                                                     |                                                                   |                                  |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List                                                        | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No                                                                                                           | No                                                          | No                                                                  | No                                                                |                                  |
| WATER UNLABELED (7732-18-5)                                                                                  |                                                             |                                                                     |                                                                   |                                  |
| State or local regulations                                                                                   |                                                             |                                                                     |                                                                   |                                  |
| U.S. - Pennsylvania - RTK (Right to Know) List<br>U.S. - New Jersey - Right to Know Hazardous Substance List |                                                             |                                                                     |                                                                   |                                  |
| TRIS HYDROCHLORIDE (1185-53-1 (Unlabeled))                                                                   |                                                             |                                                                     |                                                                   |                                  |
| State or local regulations                                                                                   |                                                             |                                                                     |                                                                   |                                  |
| U.S. - Pennsylvania - RTK (Right to Know) List<br>U.S. - New Jersey - Right to Know Hazardous Substance List |                                                             |                                                                     |                                                                   |                                  |
| ADENOSINE 5'-DIPHOSPHATE, LITHIUM SALT (U-15N5, 98%) CHEM PUR. >90% (31008-64-7 (Unlabeled))                 |                                                             |                                                                     |                                                                   |                                  |
| State or local regulations                                                                                   |                                                             |                                                                     |                                                                   |                                  |
| U.S. - Pennsylvania - RTK (Right to Know) List<br>U.S. - New Jersey - Right to Know Hazardous Substance List |                                                             |                                                                     |                                                                   |                                  |

## SECTION 16: Other information

|                    |                                                                                                                                                                                                                                                                                                                              |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other information  | : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound. |
| NFPA health hazard | : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.                                                                                                                                                                                                       |
| NFPA fire hazard   | : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.                                                                                                                                                                        |
| NFPA reactivity    | : 0 - Material that in themselves are normally stable, even under fire conditions.                                                                                                                                                                                                                                           |



### Hazard Rating

|              |                                                    |
|--------------|----------------------------------------------------|
| Health       | : 0 Minimal Hazard - No significant risk to health |
| Flammability | : 0 Minimal Hazard                                 |
| Physical     | : 0 Minimal Hazard                                 |

### CIL Mixture SDS

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