Conforms: GHS (rev 4) (2011)

(This Safety Data Sheet conforms to the requirements of the Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)), revised in 2012.) - United States

Date of issue/ Date of revision : 12/17/2018
Date of previous issue : 08/22/2018
Version : 1.3



## SAFETY DATA SHEET

**Odorlos Liquid** 

## **Section 1. Identification**

Product identifier : Odorlos Liquid

Product type : liquid Product code : PYN40L

<u>Uses</u>

Area of application : Industrial applications

**Supplier** 

Supplier's details : Yara North America, Inc.

<u>Address</u>

Street: 100 North Tampa Street, Suite 3200

Postal code : 33602 City : TAMPA Country : United States

Telephone number:+1 813 222 5700Fax no.:+1 813 875 5735e-mail address of person:yna-hesq@yara.com

responsible for this SDS

**Emergency telephone number** 

(with hours of operation)

US: Chemtrec 24-hours Emergency Response: 1-800-424-

9300

Canada: 24 Hour Emergency Service, (Canutec 613-996-

6666)

## National advisory body/Poison Center

Name : The National Poisons Emergency number

**Telephone number** : 1 800 222 1222

## Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Classification of the : ACUTE TOXICITY (oral) - Category 4

substance or mixture. SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

### **GHS label elements**

Hazard pictograms





Signal word : Danger

Hazard statements : H302 Harmful if swallowed.

H318 Causes serious eye damage.

**Precautionary statements** 

**Prevention**: P280 Wear protective gloves and eye protection.

P270 Do not eat, drink or smoke when using this

product.

P264-a Wash hands thoroughly after handling.

Response : P305 IF IN EYES:

P351 Rinse cautiously with water for several

minutes.

P338 Remove contact lenses, if present and easy

to do. Continue rinsing.

P310 Immediately call a POISON CENTER or

doctor/physician.

P301 IF SWALLOWED:

P312 Call a POISON CENTER or

doctor/physician if you feel unwell.

P330 Rinse mouth.

Hazards not otherwise

classified

None.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	CAS number	%
Calcium nitrate	10124-37-5	>= 30 - < 50
Ammonium nitrate	6484-52-2	>= 15 - < 30

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Remark : Aqueous solution

## Section 4. First aid measures

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### Description of necessary first aid measures

**Eye contact**: Immediately flush eyes with plenty of water for at least 15

minutes, keeping eyelids open. Check for and remove any

contact lenses. Get medical attention immediately.

**Inhalation** : Avoid inhalation of vapor, spray or mist. If inhaled, remove to

fresh air. Get medical attention immediately. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

**Skin contact** : Wash with soap and water. Get medical attention if irritation

develops.

Ingestion : Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of

water to drink. Get medical attention if you feel unwell.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation**: Vapor may be irritating to eyes and respiratory system.

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Skin contact**: No known significant effects or critical hazards.

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

stomach.

## Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

**Inhalation** : No specific data.

Skin contact : No specific data.

**Ingestion** : Adverse symptoms may include the following:

stomach pains

May cause burns to mouth, throat and stomach.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to

be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without

suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing

it, or wear gloves.

#### See toxicological information (Section 11)

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## Section 5. Fire-fighting measures

## **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing

media

Specific hazards arising from the chemical

Hazardous thermal decomposition products

Use an extinguishing agent suitable for the surrounding fire.

None identified.

In a fire or if heated, a pressure increase will occur and the

container may burst.

Decomposition products may include the following materials:

nitrogen oxides

Avoid breathing dusts, vapors or fumes from burning

materials.

In case of inhalation of decomposition products in a fire,

symptoms may be delayed.

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken

involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Non-flammable.None

Remark Remark

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area.

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Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

## Precautions for safe handling

### **Protective measures**

E Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Bund storage facilities to prevent soil and water pollution in the event of spillage.

## Section 8. Exposure controls/personal protection

## **Control parameters**

Occupational exposure limits : None.

## Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **Environmental exposure**

Emissions from ventilation or work process equipment should

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**controls** be checked to ensure they comply with the requirements of

environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to

acceptable levels.

Individual protection measures

**Hygiene measures** : A washing facility or water for eye and skin cleaning purposes

should be present.

**Eye/face protection** : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Recommended: Tightly-fitting goggles

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

**Body protection** : Personal protective equipment for the body should be selected

based on the task being performed and the risks involved.

Other skin protection : Appropriate footwear and any additional skin protection

measures should be selected based on the task being

performed and the risks involved and should be approved by a

specialist before handling this product.

**Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator

complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of

the product and the safe working limits of the selected

respirator.

Personal protective equipment:

(Pictograms)



## Section 9. Physical and chemical properties

## **Appearance**

Physical state : liquid
Color : Colorless.
Odor : Odorless.
Odor threshold : Not determined.

**pH** : 5 - 7 [Conc.: 140 g/l]

Melting/freezing point : -4 - 0 °C (25 - 32 °F)

**Boiling/condensation point** : 100 °C

(212 °F)

Sublimation temperature:Not determined.Flash point:Not determined.Fire point:Not determined.Evaporation rate:Not determined.

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Flammability (solid, gas) Non-flammable.

Lower and upper explosive

(flammable) limits Vapor pressure

Lower: Not determined. **Upper:** Not determined.

Not determined.

1.52 g/cm3 @ 25 °C (77 °F) **Density** 

Relative density Not determined. Solubility Not determined. Solubility in water > 100 g/l

Miscibility with water Partition coefficient: n-

octanol/water

This product is totally miscible in water.

Not determined.

**Auto-ignition temperature** Not determined.

**Decomposition temperature** 

**Viscosity** 

Not determined.

**Dynamic:** Not determined. Kinematic: Not determined.

**Explosive properties** None. **Oxidizing properties** None

## Section 10. Stability and reactivity

Reactivity No specific test data related to reactivity available for this

product or its ingredients.

**Chemical stability** The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous

reactions will not occur.

Conditions to avoid Avoid contamination by any source including metals, dust and

organic materials.

Incompatible materials alkalis

> combustible materials reducing materials organic materials

Acids

**Hazardous decomposition** 

products

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

## Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingre dient name	Result	Species	Dose	Exposure	References
Calcium nitrate					
	LD50 Oral	Rat - Female	500 mg/kg OECD 423	Not applicable.	IUCLID 5

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	LD50 Dermal	Rat	2,000 - 5,000 mg/kg OECD 402	Not applicable.	IUCLID
Ammonium nitra	ate				
	LD50 Oral	Rat	2,950 mg/kg OECD 401	Not applicable.	IUCLID
	LD50 Dermal	Rat	> 5,000 mg/kg OECD 402	Not applicable.	IUCLID

Conclusion/Summary : Harmful if swallowed.

## Irritation/Corrosion

Product/ingred ient name	Result	Species	Score	Exposure	Observation	References
Calcium nitrate	Eyes - Severe irritant OECD 405	Rabbit	Not applic able.	24 - 72 h	Not applicable.	
Ammonium nitrate	Eyes - Irritant OECD 405	Rabbit	Not applic able.		Not applicable.	IUCLID

## **Conclusion/Summary**

**Skin** : No known significant effects or critical hazards.

**Eyes** : Causes serious eye damage.

**Respiratory** : May be irritating to the respiratory system.

**Sensitization** 

**Conclusion/Summary** 

Skin : Not sensitizing
Respiratory : Not sensitizing

**Mutagenicity** 

**Conclusion/Summary** : No known significant effects or critical hazards.

## **Carcinogenicity**

## Classification

Product/ingredient	OSHA	IARC	NTP
name			
Calcium nitrate	Not applicable.	2A	Not applicable.

**Conclusion/Summary** : No known significant effects or critical hazards.

## **Reproductive toxicity**

Product/ing redient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure	References
Calcium nitrate	Not	Negative	Negative	Rat	Oral: >	Not	IUCLID 5

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	applicable.				1500 mg/kg bw/day Repeate d dose OECD 422	applicable.	
Ammonium nitrate	Not applicable.	Negative	Negative	Rat	Oral: > 1500 mg/kg bw/day OECD 422	28 days	IUCLID 5

**Conclusion/Summary**: No known significant effects or critical hazards.

## Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

### Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

### **Aspiration hazard**

No known significant effects or critical hazards.

Information on the likely routes of exposure

Not available.

Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation**: Vapor may be irritating to eyes and respiratory system.

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Skin contact**: No known significant effects or critical hazards.

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

stomach.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : Adverse symptoms may include the following:

stomach pains

May cause burns to mouth, throat and stomach.

## Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate effects : Not available.

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Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate effects : Not available.
Potential delayed effects : Not available.

## Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure	References
Calcium nitrate	NOAEL Oral	Rat	> 1,000 mg/kg OECD 407	28days	IUCLID 5
Ammonium nitrate	NOAEL Oral	Rat	256 mg/kg OECD 422	28days	IUCLID 5
	NOEC Dusts and mists Inhalation	Rat	> 185 mg/kg OECD 412	2weeks 5 hours per day	IUCLID 5

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity**: No known significant effects or critical hazards.

**Fertility effects**: No known significant effects or critical hazards.

**Developmental effects**: No known significant effects or critical hazards.

**Effects on or via lactation** : No known significant effects or critical hazards.

Other effects : No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : Adverse symptoms may include the following:

stomach pains

May cause burns to mouth, throat and stomach.

## **Numerical measures of toxicity**

**Acute toxicity estimates** 

Not available.

## Section 12. Ecological information

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## **Toxicity**

Product/ingredient name	Result	Species	Exposure	References
Calcium nitrate			•	
	Acute LC50 1,378 mg/l Fresh water OECD 203	Fish	96 h	IUCLID 5
	Acute LC50 2,400 mg/l Fresh water	Bluegill	4 d	Proc. Acad. Nat. Sci. Philadelphia106: 185-205
	Acute LC50 490 mg/l Fresh water	Daphnia	48 h	IUCLID 5
	Acute EC50 > 1,700 mg/l Salt water	Algae	10 d	IUCLID 5
Ammonium nitrate		•		
	Acute LC50 447 mg/l Fresh water	Fish	48 h	IUCLID 5
	Acute EC50 490 mg/l Fresh water	Daphnia	48 h	IUCLID 5
	Acute EC50 1,700 mg/l Salt water	Algae	10 d	IUCLID 5

**Conclusion/Summary**: No known significant effects or critical hazards.

Persistence and degradability

**Conclusion/Summary** : Readily biodegradable in plants and soils.

**Bioaccumulative potential** 

**Conclusion/Summary** : The product does not show any bioaccumulation

phenomena.

**Mobility in soil** 

Soil/water partition coefficient (KOC)

: Not available.

**Mobility** : This product may move with surface or groundwater flows because its water solubility is: high

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

## **Product**

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless

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fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

Regulation: UN Class	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	
Environmental hazards	: No.

Regulation: IMDG	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	
Additional information	
Marine pollutant	: No.

Regulation: IATA	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	
Additional information	

Regulation: DOT Classification	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.

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14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information <u>Marine pollutant</u>	: Not available.

Regulation: TDG Class	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	
Environmental hazards	: No.

14.6 Special precautions for

<u>user</u>

Transport within user's premises: Ensure that persons transporting the product know what to do in the event of

an accident or spillage.

Not applicable. **IMSBC** 

Transport in bulk according to

**Annex II of MARPOL and the** 

**IBC Code** 

Not available.

## **Section 15. Regulatory information**

## **United States**

**U.S. Federal regulations** TSCA 8(a) CDR Exempt/Partial exemption: Not

determined

Not listed

Not listed

Clean Air Act Section 112(b)

**Hazardous Air Pollutants** 

(HAPs)

Clean Air Act Section 602

**Class I Substances** 

Clean Air Act Section 602

**Class II Substances** 

**DEA List I Chemicals** 

(Precursor Chemicals)

**DEA List II Chemicals** (Essential Chemicals) Not listed

Not listed

Not listed

## **SARA 302/304**

## **Composition/information on ingredients**

No products were found.

Date of issue: 12/17/2018 Page:13/16 SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Immediate (acute) health hazard

## **Composition/information on ingredients**

Name	%	Classification
Calcium nitrate	>= 30 - < 50	F, AH, CHF, AH
Ammonium nitrate	>= 15 - < 30	F, AHF, AH

## **SARA 313**

## Form R - Reporting requirements

Product name	CAS number	%
Calcium nitrate	10124-37-5	0
Ammonium nitrate	6484-52-2	0

## **Supplier notification**

Product name	CAS number	%
Calcium nitrate	10124-37-5	0
Ammonium nitrate	6484-52-2	0

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

## **State regulations**

**Massachusetts** : The following components are listed:

Ammonium nitrate

New York : None of the components are listed.

New Jersey : The following components are listed:

Calcium nitrate Ammonium nitrate

**Pennsylvania** : The following components are listed:

Ammonium nitrate

## California Prop. 65

**⚠ WARNING:** Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov.</u>

## **Inventory list**

Philippines inventory (PICCS): All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

**Korea inventory:** All components are listed or exempted. **Japan inventory:** All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted. Australia inventory (AICS): All components are listed or exempted.

Canada inventory: All components are listed or exempted.

United States inventory (TSCA 8b): All components are listed or exempted.

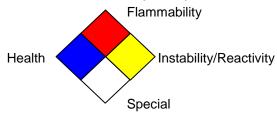
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EC INVENTORY (EINECS/ELINCS): All components are listed or exempted.

Canada: All components are listed or exempted.

## Section 16. Other information

## National Fire Protection Association (U.S.A.)



## Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (oral) - Category 4	Calculation method
SERIOUS EYE DAMAGE/ EYE	Calculation method
IRRITATION - Category 1	

## **History**

Date of printing: 12/24/2018Date of issue/Date of revision: 12/17/2018Date of previous issue: 08/22/2018

Version : 1.3

Prepared by : Yara Chemical Compliance (YCC).

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and

Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of

1978. ("Marpol" = marine pollution)

UN = United Nations

**Key data sources** : EU REACH IUCLID5 CSR.

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical

Substances.

Sphera Solutions Inc., 4777 Levy Street, St Laurent, Quebec

HAR 2P9, Canada.

Indicates information that has changed from previously issued version.

#### Notice to reader

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**Odorlos Liquid** 

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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