

1 Product and Company Identification

- **Product Identifier**
- **Trade name:** LipHter+
- **Product Description:** No further relevant information
- **Application of the substance / the mixture:** For use in condensate neutralizers.
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Axiom Industries Ltd.
3603 Burrton Avenue
Saskatoon, SK, Canada S7P 0E4
Phone: (306) 651-1815
www.axiomind.com
- **Emergency telephone number:**
PERS Emergency Response: Domestic and Canada - 1-800-633-8253, International 1-801-629-0667

*** 2 Hazard(s) Identification**

- **Classification of the substance or mixture:**



GHS08 Health hazard

Respiratory Sensitizer - Category 1A H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Acute Toxicity (Oral) - Category 4 H302 Harmful if swallowed.
Skin Irritation - Category 2 H315 Causes skin irritation.
Eye Irritation - Category 2A H319 Causes serious eye irritation.

- **Label elements:**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS07 GHS08

- **Signal word:** Danger
- **Hazard-determining components of labeling:**
TRADE SECRET
TRADE SECRET
- **Hazard statements:**
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- **Precautionary statements:**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P284 [In case of inadequate ventilation] wear respiratory protection.
- P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
- P330 Rinse mouth.
- P302+P352 If on skin: Wash with plenty of water.
- P321 Specific treatment (see on this label).
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Unknown acute toxicity:

LipHter+ does not need any hazard identification labels when used for its intended application as a condensate neutralization media because of the low probability an end user will come into contact with the media.

This value refers to knowledge of known, established toxicological or ecotoxicological values.

· Hazard description:

· WHMIS-symbols:

D2B - Toxic material causing other toxic effects



· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)



· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on ingredients:

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

· Dangerous Components:

	TRADE SECRET	≥85% w/w
	⚠ Acute Toxicity (Oral) - Category 4, H302	

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Table with 3 columns: RTECS, Hazard Information (including TRADE SECRET and GHS hazard statements), and Concentration (e.g., 5-10% w/w).

4 First-Aid Measures

- Description of first aid measures:
After inhalation: Remove affected person to fresh air.
After skin contact: Immediately wash with water and soap.
After eye contact: Rinse opened eye for at least 15 minutes.
After swallowing: Never give anything by mouth to an unconscious person.
Information for doctor:
Most important symptoms and effects, both acute and delayed: No further relevant information available.
Indication of any immediate medical attention and special treatment needed: No further relevant information available.

* 5 Fire-Fighting Measures

- Extinguishing media:
Suitable extinguishing agents: Use fire fighting measures that suit the environment.
For safety reasons unsuitable extinguishing agents: No further relevant information available.
Special hazards arising from the substance or mixture: One of the proprietary components in the formula can react violently or ignite with interhalogens such as chlorine trifluoride (ClF3) or bromine pentafluoride (BrF5), and incandescently with phosphorus pentachloride (PCl5).
Advice for firefighters:
Protective equipment: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures:

- Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation. Avoid formation of dust. Avoid breathing dust.
Environmental precautions: No special measures required.
Methods and material for containment and cleaning up: Pick up mechanically.



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Dispose of the collected material according to regulations.

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.

7 Handling and Storage

Handling

Precautions for safe handling:

- Avoid contact with skin, eyes and clothing
Prevent formation of aerosols.
Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities:

Storage

Requirements to be met by storerooms and receptacles:

- Store in a cool, dry place.
Store in a well ventilated place.
Store in the original container.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Recommended storage temperature: 10 - 30 °C

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

8 Exposure Controls/Personal Protection

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

Control parameters:

Components with occupational exposure limits:

Table with 2 columns: Component, Exposure Limit. Rows include TRADE SECRET, EL Short-term value: 10** mg/m³, EV Long-term value: 10 mg/m³, TRADE SECRET, EL Long-term value: 2 mg/m³, EV Long-term value: 2 mg/m³, TRADE SECRET, EL Short-term value: 10** mg/m³, EV Long-term value: 5* 10** mg/m³, TRADE SECRET, EL Long-term value: 1.0 mg/m³, EV Long-term value: 10 mg/m³.

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- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:**



Suitable respiratory protective device recommended.

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.

- **Protection of hands:**



Protective gloves

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

Select glove material based on penetration times, rates of diffusion and degradation.

- **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

- **Eye protection:**



Face protection



Tightly sealed goggles

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
Form: Spherical Ball

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Trade name: LipHter+

- Color: White
Odour: Odorless
pH-value: Not applicable.
Change in condition
Melting point/Melting range: Not determined.
Boiling point/Boiling range: ≥2,230 °C
Flash point: None
Flammability (solid, gaseous): Not determined.
Ignition temperature: >370 °C
Decomposition temperature: Not determined.
Auto igniting: Product is not self-igniting.
Danger of explosion: Product does not present an explosion hazard.
Explosion limits:
Lower: Not determined.
Upper: Not determined.
Vapor pressure: Not applicable.
Density:
Relative density: Not determined.
Vapor density: Not applicable.
Evaporation rate: Not applicable.
Solubility in / Miscibility with:
Water: Insoluble.
Partition coefficient (n-octanol/water): Not determined.
Viscosity:
Dynamic: Not applicable.
Kinematic: Not applicable.
Solvent content:
VOC content: 0.00 %
Solids content: 100.0 %
Other information: No further relevant information available.

* 10 Stability and reactivity

- Reactivity: No further relevant information available.
Chemical stability: Stable under normal conditions.
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Possibility of hazardous reactions:
One of the proprietary components in the formula can react violently or ignite with interhalogens such as chlorine trifluoride (ClF3) or bromine pentafluoride (BrF5), and incandescently with phosphorus pentachloride (PCl5).
Conditions to avoid: No further relevant information available.
Incompatible materials: Acids, interhalogens, phosphorus pentachloride, and chlorine trifluoride.
Hazardous decomposition products: No dangerous decomposition products known.

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* 11 Toxicological information

Information on toxicological effects:

Acute toxicity:

LD/LC50 values that are relevant for classification:

Table with 3 columns: Route, LD50/LC50, and Value. Includes rows for Oral, Dermal, and Inhalative routes with various toxicity values and 'TRADE SECRET' labels.

Primary irritant effect:

- On the skin: Irritant to skin and mucous membranes.
On the eye: Causes serious eye irritation.
Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

- Harmful
Irritant

Carcinogenic categories:

IARC (International Agency for Research on Cancer):

- Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans

Table with 2 columns: Description (TRADE SECRET) and Value (3).

NTP (National Toxicology Program):

None of the ingredients are listed.



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12 Ecological information

Toxicity:

Aquatic toxicity:

TRADE SECRET

EC50 >1,000 mg/l (Daphnia) (OECD 202)

- Persistence and degradability: No further relevant information available.
Behavior in environmental systems:
Bioaccumulative potential: No further relevant information available.
Mobility in soil: No further relevant information available.
Additional ecological information:
General notes: Generally not hazardous for water.
Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods:
Recommendation: Observe all federal, state and local environmental regulations when disposing of this material.
Uncleaned packagings
Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number:
DOT, TDG, ADN, IMDG, IATA Non-Regulated Material
UN proper shipping name:
DOT, TDG, ADN, IMDG, IATA Non-Regulated Material
Transport hazard class(es):
DOT, TDG, ADN, IMDG, IATA
Class: Non-Regulated Material
Packing group:
DOT, TDG, IMDG, IATA Non-Regulated Material
Environmental hazards: Not applicable.
Special precautions for user: Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
UN "Model Regulation": Non-Regulated Material

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture:
SARA (Superfund Amendments and Reauthorization):

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

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· TSCA (Toxic Substances Control Act):
All ingredients are listed or exempt from listing.
· Chemicals known to cause cancer:
None of the ingredients are listed.
· Canadian substance listings:
· 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%):
All ingredients are listed.

· **GHS label elements**

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

· **Hazard pictograms:**



GHS07 GHS08

· **Signal word:** Danger

· **Hazard-determining components of labeling:**

TRADE SECRET
TRADE SECRET

· **Hazard statements:**

H302 Harmful if swallowed.
H315 Causes skin irritation.
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· **Precautionary statements:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
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P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
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P302+P352 If on skin: Wash with plenty of water.
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P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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P362+P364 Take off contaminated clothing and wash it before reuse.
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P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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Canadian WHMIS Standards & GHS Rev04

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Trade name: LipHter+

· National regulations:
None of the ingredients are listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information:

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision:** 02/16/2018 / 5

· **Abbreviations and acronyms:**

- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- 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)
- WHMIS: Workplace Hazardous Materials Information System (Canada)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative

· *** Data compared to the previous version altered.**

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