

SAFETY DATA SHEET

Solveal BLÜ

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SDS Name: Solveal BLÜ
Synonyms:
Relevant identified uses: For animal use only.
Uses advised against: Any use other than recommended above.
Reasons why uses advised against: Not determined or not applicable.

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T2C5N6

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1-800 463-5060 OR
(418) 656-8090 (Control Poison Center)
Infopoison.ca (24 hours)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Name	Weight %	CAS #
Bismuth hydroxide nitrate oxide	60-70	1304-85-4
White mineral oil (petroleum)	25-35	8042-47-5
Aluminium tristearate	3-5	637-12-7
Silica, amorphous, fumed, cryst.-free	<1	112945-52-5

Additional Information: None

3. HAZARDS IDENTIFICATION

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Label Elements

Hazard Pictograms: None
Signal Word: None

Hazard statement(s)

None.

Precautionary Statements

P102 Keep out of reach of children.

Hazards not otherwise classified

Airborne dust may cause mechanical irritation/abrasion of the skin, eyes and respiratory tract.

4. FIRST AID MEASURES**Description of first aid measures****General advice**

Show this Safety Data Sheet to the doctor in attendance.

If inhaled

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

In case of skin contact

Wash affected area with plenty of soap and water. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, seek medical advice/attention.

In case of eye contact

Immediately rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation develops or persists, seek medical advice/attention.

If swallowed

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most important symptoms and effects, both acute and delayed**Acute symptoms and effects:**

Prolonged exposure to product dust may result in skin irritation. Symptoms include redness, pain, burning and inflammation.

Exposure to airborne dust may result in mechanical irritation/abrasion of the eyes. Symptoms include redness, pain, inflammation, itching, burning, tearing, blurred vision and feeling of foreign object in eye.

Inhalation of product dust may result in respiratory tract irritation. Symptoms include cough, breathing difficulties, sore throat and inflammation of the mucous membranes lining the respiratory tract.

Delayed symptoms and effects:

Not determined or not available.

Immediate medical attention and special treatment**Specific treatment:**

Not determined or not available.

Notes for the doctor:

Treat symptomatically.

5. FIRE FIGHTING MEASURES**Extinguishing media****Suitable extinguishing media:**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media:

Do not use water jet.

Specific hazards during fire-fighting:

Thermal decomposition may produce irritating and toxic fumes including nitrogen oxides, bismuth oxides, carbon oxides, aluminum oxides and silicon oxides.

Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers.

Avoid unnecessary run-off of extinguishing media which may cause pollution.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Evacuate unnecessary personnel. Ventilate area. Avoid dust formation. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to other sections

For personal protective equipment see Section 8. For disposal see Section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid generation and dispersal of dust. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for safe storage, including any incompatibilities

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

Specific end use(s)

No additional information available.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Alberta	White mineral oil (petroleum)	8042-47-5	8-Hour TWA: 5 mg/m ³ (Oil mist, mineral)
	White mineral oil (petroleum)	8042-47-5	15-Minute STEL: 10 mg/m ³ (Oil mist, mineral)
	Aluminium tristearate	637-12-7	8-Hour TWA: 10 mg/m ³ (Stearates, excludes stearates of toxic metals)
	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour TWA: 3 mg/m ³ (Particulate Not Otherwise Regulated, Respirable)
	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour TWA: 10 mg/m ³ (Particulate Not Otherwise Regulated, Total)
British Columbia	White mineral oil (petroleum)	8042-47-5	8-Hour TWA: 1 mg/m ³ (Oil mist, mineral, severely refined)
	Aluminium tristearate	637-12-7	8-Hour TWA: 1 mg/m ³

			(Aluminum metal and insoluble compounds, respirable)
	Aluminium tristearate	637-12-7	8-Hour TWA: 10 mg/m ³ (Stearates, inhalable)
	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour TWA: 3 mg/m ³ (Particles, insoluble or poorly soluble, N.O.S., respirable)
	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour TWA: 10 mg/m ³ (Particles, insoluble or poorly soluble, N.O.S., inhalable)
Manitoba	White mineral oil (petroleum)	8042-47-5	8-Hour TWA: 5 mg/m ³ (Mineral oil, pure, highly and severely refined [inhalable fraction])
	Aluminium tristearate	637-12-7	8-Hour TWA: 1 mg/m ³ (Aluminum metal and insoluble compounds, respirable fraction)
	Aluminium tristearate	637-12-7	8-Hour TWA: 10 mg/m ³ (Stearates (except stearates of toxic metals), inhalable fraction)
	Aluminium tristearate	637-12-7	8-Hour TWA: 3 mg/m ³ (Stearates (except stearates of toxic metals), respirable fraction)
	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour TWA: 3 mg/m ³ (Particles, insoluble or poorly soluble, N.O.S., respirable)
	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour TWA: 10 ppm (Particles, insoluble or poorly soluble, N.O.S., inhalable)
Ontario	White mineral oil (petroleum)	8042-47-5	8-Hour TWA: 5 mg/m ³ (Mineral

			oil, pure, highly and severely refined [inhalable fraction])
	Aluminium tristearate	637-12-7	8-Hour TWA: 1 mg/m ³ (Aluminum metal and insoluble compounds, respirable fraction)
	Aluminium tristearate	637-12-7	8-Hour TWA: 3 mg/m ³ (Stearates (except stearates of toxic metals), respirable fraction)
	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour TWA: 10 mg/m ³ (Particles, insoluble or poorly soluble, N.O.S., inhalable)
	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour TWA: 3 mg/m ³ (Particles, insoluble or poorly soluble, N.O.S., respirable)
Quebec	White mineral oil (petroleum)	8042-47-5	8-Hour TWA: 5 mg/m ³ (Mineral oil (mist) pure, highly and ultra-refined [inhalable fraction])
	White mineral oil (petroleum)	8042-47-5	15-Minute STEL: 10 mg/m ³ (Mineral oil (mist) pure, highly and ultra-refined [inhalable fraction])
	Aluminium tristearate	637-12-7	8-Hour TWA: 5 mg/m ³ (Aluminum and its compounds, respirable dust)
	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour TWA: 10 mg/m ³ (Dust, not otherwise classified, total)
Saskatchewan	White mineral oil (petroleum)	8042-47-5	8-Hour Contamination Limit: 5 mg/m ³ (Oil mist, mineral)
	White mineral oil (petroleum)	8042-47-5	15-Minute Contamination Limit: 10 mg/m ³

			(Oil mist, mineral)
	Aluminium tristearate	637-12-7	8-Hour Contamination Limit: 10 mg/m ³ (Aluminum, metal dust and compounds, as Al)
	Aluminium tristearate	637-12-7	15-Minute Contamination Limit: 20 mg/m ³ (Aluminum, metal dust and compounds, as Al)
	Aluminium tristearate	637-12-7	8-Hour Contamination Limit: 10 mg/m ³ (Stearates)
	Aluminium tristearate	637-12-7	15-Minute Contamination Limit: 20 mg/m ³ (Stearates)
	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour Contamination Limit: 10 mg/m ³ (Particles, insoluble or poorly soluble, N.O.S., inhalable)
	Silica, amorphous, fumed, cryst.-free	112945-52-5	15-Minute Contamination Limit: 20 mg/m ³ (Particles, insoluble or poorly soluble, N.O.S., inhalable)
	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour Contamination Limit: 3 mg/m ³ (Particles, insoluble or poorly soluble, N.O.S., respirable)
	Silica, amorphous, fumed, cryst.-free	112945-52-5	15-Minute Contamination Limit: 6 mg/m ³ (Particles, insoluble or poorly soluble, N.O.S., respirable)
New Brunswick	White mineral oil (petroleum)	8042-47-5	8-Hour TWA: 5 mg/m ³ (Mineral oil, pure, highly and severely refined [inhalable fraction])
	Aluminium tristearate	637-12-7	8-Hour TWA: 1 mg/m ³

			(Aluminum metal and insoluble compounds, respirable fraction)
	Aluminium tristearate	637-12-7	8-Hour TWA: 10 mg/m ³ (Stearates (except stearates of toxic metals))
	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour TWA: 3 mg/m ³ (Particles, insoluble or poorly soluble, N.O.S., respirable)
	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour TWA: 10 mg/m ³ (Particles, insoluble or poorly soluble, N.O.S., inhalable)

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal protection equipment**Eye and face protection:**

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Blue paste
Odor:	Parrafin Odor
Odor threshold:	Not determined or not available.
pH:	Not determined or not available.
Evaporation rate:	Not determined or not available.
Melting/Freezing point:	260 °C (500 °F)
Boiling point:	Not determined or not available.
Flash point	Not determined or not available.
Explosive limit (upper):	Not determined or not available.
Explosive limit (lower):	Not determined or not available.
Flammability (solid, gas):	Flammable Vapor
Vapor pressure:	Not determined or not available.
Vapor density:	Not determined or not available.
Density:	Not Less than 1.8 g/mL
Relative density:	Not determined or not available.
Solubility:	Insoluble with water.
Partition coefficient (n-octanol/water):	Not determined or not available.
Auto/Self-ignition temperature:	Not determined or not available.
Decomposition temperature:	Not determined or not available.
Viscosity, kinematic:	Not determined or not available.
Viscosity, dynamic:	250 -1200 Pas
Explosive properties:	Not Explosive
Oxidizing properties:	Not Oxidizing

10. STABILITY AND REACTIVITY

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical stability:

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources, incompatible materials, generation and dispersal of dust

Incompatible materials:

Reducing agents; Combustible materials

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

Product data: No data available.

Substance data:

Name	Route	Result
Bismuth hydroxide nitrate oxide	Oral	LD50 Rat: >2000 mg/kg
	Inhalation	LC50 Rat: >5.07 mg/L (4 hr [dust])
White mineral oil (petroleum)	Dermal	LD50 Rabbit: >2000 mg/kg
	Oral	LD50 Rat: >5000 mg/kg
	Inhalation	LC50 Rat: >5 mg/L (4 hr (aerosol))
Aluminium tristearate	Oral	LD50 Rat: >5000 mg/kg
	Dermal	LD50 Rabbit: >2000 mg/kg

Skin corrosion/irritation

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

Product data:

No data available.

Substance data:

Name	Result
Silica, amorphous, fumed, cryst.-free	Causes skin irritation.

Serious eye damage/irritation

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

Product data:

No data available.

Substance data:

Name	Result
Silica, amorphous, fumed, cryst.-free	Causes serious eye irritation.

Respiratory or skin sensitization

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

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

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

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
White mineral oil (petroleum)	Group 3
Silica, amorphous, fumed, cryst.-free	Group 3

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

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

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

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

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

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

Product data:

No data available.

Substance data:

Name	Result
Silica, amorphous, fumed, cryst.-free	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

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

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

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

Product data:

No data available.

Substance data:

Name	Result
White mineral oil (petroleum)	May be fatal if swallowed and enters airways.

Information on likely routes of exposure:

Inhalation; Skin contact; Eye contact

Ingestion is an unlikely route of exposure.

Symptoms related to the physical, chemical and toxicological characteristics:

Refer to Section 4 of this SDS.

Other information:

No data available.

12. ECOLOGICAL INFORMATION

Acute (short-term) toxicity

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

Product data: No data available.

Substance data:

Name	Result
Bismuth hydroxide nitrate oxide	Aquatic Plants EC50 Freshwater algae: >137 mg/L (72 hr [growth rate])
	Aquatic Invertebrates EC50 Daphnia magna: >137 mg/L (48 hr [mobility])
	Fish EC50 Danio rerio: >137 mg/L (96 hr)
White mineral oil (petroleum)	Fish LC50 Oncorhynchus mykiss: >100 mg/L (96 hr [LL50])
	Aquatic Invertebrates LC50 Daphnia magna: >100 mg/L (48 hr [LL50])

Chronic (long-term) toxicity

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

Product data: No data available.

Substance data:

Name	Result
White mineral oil (petroleum)	Aquatic Invertebrates EC50 Daphnia magna: >1000 mg/L (14 d [immobilization])

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
Bismuth hydroxide nitrate Oxide	Biodegradation studies are not applicable to inorganic substances.
White mineral oil (petroleum)	Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance
Aluminium tristearate	The substance is readily biodegradable. 76.75% degradation in water, measured by CO2 evolution, after 28 days.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Bismuth hydroxide nitrate Oxide	Bioaccumulation is not expected. BCF (terrestrial): 0.13 dimensionless
White mineral oil (petroleum)	Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance
Aluminium tristearate	Bioaccumulation is not expected. Estimated BCF (aquatic species): 3.162L/kg

Mobility in soil**Product data:** No data available.**Substance data:**

Name	Result
Bismuth hydroxide nitrate Oxide	Log Kp (solids-water in sediment): 2.75 - 3.80 [read-across]
White mineral oil (petroleum)	Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance
Aluminium tristearate	The substance is immobile in soil and has strong sorption to soil and sediment. Log Koc: 10

Results of PBT and vPvB assessment**Product data:****PBT assessment:** This product does not contain any substances that are assessed to be a PBT.**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.**Substance data:****PBT assessment:**

Bismuth hydroxide nitrate oxide	PBT assessment does not apply to inorganic substances.
White mineral oil (petroleum)	This substance is not PBT.
Aluminium tristearate	The substance is not PBT.

vPvB assessment:

Bismuth hydroxide nitrate oxide	PBT assessment does not apply to inorganic substances.
White mineral oil (petroleum)	This substance is not vPvB.
Aluminium tristearate	The substance is not vPvB.

Other adverse effects: No data available.**13. DISPOSAL CONSIDERATIONS****Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

Contaminated packages:

Not determined or not applicable.

14. TRANSPORT INFORMATION**Canadian Transportation of Dangerous Goods (TDG)**

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None



SAFETY DATA SHEET

Solveasal BLÜ

Alberta Vet Laboratories Ltd.

Document No.:

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Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
Bulk Name	None
Ship type	None
Pollution category	None

15. REGULATORY INFORMATION

Canada regulations

Domestic substances list (DSL): All ingredients are listed or exempt.

Non-domestic substances list (NDSL): None of the ingredients are listed.

Additional information: Not determined.

16. OTHER INFORMATION

DISCLAIMER

For Veterinary used only. Not for household or other uses.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Alberta Veterinary Laboratory Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Alberta Veterinary Laboratory Ltd. has been advised of the possibility of such damages.

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