



Revision Date 13-Feb-2020

SAFETY DATA SHEET

Revision Number 5

1. IDENTIFICATION

Product Identifier

Product Name

LIONGRIP VERSA II
LIONGRIP VERSA II INDOOR / OUTDOOR WOOD GLUE TYPE 2 / LIONGRIP COLLE
BOIS INT/EXT TYPE 2

Other means of identification

Product Code(s)

R7200130, R7200430, R7205530

Product Type

Adhesive.

Recommended use of the chemical and restrictions on use

Recommended Use

For industrial use only.

Uses advised against

No information available

Details of the supplier of the safety data sheet

Quincaillerie Richelieu

7900 Boul. Henri-Bourassa Ouest
Montréal, Québec, H4S 1V4
1.800.361.6000
www.richelieu.com

Richelieu America

7021 Sterling Ponds
Sterling Heights, MI 48312
1.800.361.6000
www.richelieu.com

Emergency telephone number

Emergency Telephone Number

CANUTEC 613-996-6666

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

WHMIS Statement

Classification complies with Canadian Hazardous Products Regulations (WHMIS 2015).

Skin sensitization

Category 1A

Label elements

Emergency Overview

Signal Word Warning

Hazard Statements

May cause an allergic skin reaction.



Appearance White

Physical State Liquid

Odor Mild

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.

Precautionary Statements - Response

Specific treatment (see Section 4 on this SDS).

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

IF ON SKIN: Wash with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Precautionary Statements - Storage

Keep from freezing.

Precautionary Statements - Disposal

Dispose of in accordance with federal, state and local regulations.

Hazards not otherwise classified (HNOC)

None under normal processing.

Other Information

Unknown acute toxicity

0.20757865 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Components	CAS No.	Weight-%	Trade Secret
Aluminum nitrate nonahydrate	7784-27-2	1 - 5	*
Propylene carbonate	108-32-7	1 - 5	*
Diethylene glycol monobutyl ether acetate	124-17-4	0.1 - 1.0	*
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone	55965-84-9	< 0.1%	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.

Skin Contact

Wash skin with soap and water. Get medical attention if irritation develops and persists.

Inhalation

None under normal use conditions. Remove to fresh air.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Not an expected route of exposure. Gastrointestinal discomfort. Consult a physician if necessary.

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

Specific test data for the substance or mixture is not available.

Specific Hazards Arising from the Chemical

Do not allow run-off from fire-fighting to enter drains or water courses. Dried product is capable of burning. Sealed containers may rupture when heated.

Hazardous Combustion Products

Carbon oxides, Nitrogen oxides (NOx)

Explosion Data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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

Use personal protection equipment. Ensure adequate ventilation. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

Environmental precautions**Environmental precautions**

See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up**Methods for Cleaning Up**

Pick up and transfer to properly labeled containers. Prevent environmental discharge consistent with regulatory requirements. Disposal should be in accordance with applicable regional, national and local laws and regulations.

7. HANDLING AND STORAGE**Precautions for safe handling****Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing.

Conditions for safe storage, including any incompatibilities**Storage**

Keep from freezing. Keep containers tightly closed in a cool, well-ventilated place.

Incompatible Products

WATER REACTIVE MATERIALS. Bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

Components	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA - WEEL
Aluminum nitrate nonahydrate 7784-27-2	-	(vacated) TWA: 2 mg/m ³	TWA: 2 mg/m ³	-

Appropriate engineering controls**Engineering Measures**

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Avoid contact with eyes. Eye protection.
Skin and Body Protection	Wear protective gloves/protective clothing.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Take off contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Mild
Appearance	White	Odor Threshold	No data available
Color	White		
Property	Values	Remarks • Method	
pH	3	Range: 2.5 - 3.5	
Melting point / freezing point	No information available		
Boiling Point / Boiling Range	100 °C		
Flash Point	Specific test data for the substance or mixture is not available		
Evaporation Rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper Explosive Limits	Specific test data for the substance or mixture is not available		
Lower Explosive Limits	Specific test data for the substance or mixture is not available		
Vapor pressure	Negligible		
Vapor Density	Specific test data for the substance or mixture is not available		
Specific Gravity	1.07		
Water Solubility	Miscible with water		
Solubility in other solvents	Specific test data for the substance or mixture is not available		
Partition coefficient	No information available		
Autoignition Temperature	No information available		
Decomposition Temperature	No information available		
Kinematic viscosity	No information available		
Dynamic viscosity	3500 - 5000 cps	@ 25 °C	
Explosive Properties	No information available		
Oxidizing Properties	No information available		

Other Information

Softening Point	Specific test data for the substance or mixture is not available
Solids	48.0 - 50.0 %

10. STABILITY AND REACTIVITY

Reactivity

None under normal processing

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Do not freeze. Extremes of temperature and direct sunlight.

Incompatible Materials

WATER REACTIVE MATERIALS. Bases.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Inhalation	May cause irritation of respiratory tract.
Eye Contact	Contact with eyes may cause irritation.
Skin Contact	Repeated exposure may cause skin dryness or cracking.
Ingestion	Not an expected route of exposure. May be harmful if swallowed.

Components	Oral LD50	Dermal LD50	Inhalation LC50
Aluminum nitrate nonahydrate 7784-27-2	= 261 mg/kg (Rat)	-	-
Propylene carbonate 108-32-7	= 29000 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
Diethylene glycol monobutyl ether acetate 124-17-4	= 6500 mg/kg (Rat)	= 14500 mg/kg (Rabbit)	= 72500 mg/m ³ (Rat) 4 h
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	= 53 mg/kg (Rat) = 481 mg/kg (Rat) 232 - 249 mg/kg (Rat) = 120 mg/kg (Rat)	= 200 mg/kg (Rabbit)	= 1.23 mg/L (Rat) 4 h = 0.11 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms Specific test data for the substance or mixture is not available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause sensitization in susceptible persons.
Mutagenic Effects Specific test data for the substance or mixture is not available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Components	ACGIH	IARC	NTP	OSHA
Aluminum nitrate nonahydrate 7784-27-2	-	Group 2A	-	X

Reproductive Toxicity No information available
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Chronic Toxicity Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.
Aspiration Hazard No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 9,177.90

12. ECOLOGICAL INFORMATION**Ecotoxicity**

0.20758 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Components	Algae/aquatic plants	Toxicity to Fish	Daphnia Magna (Water Flea)
Propylene carbonate - 108-32-7	500: 72 h Desmodesmus subspicatus mg/L EC50	1000: 96 h Cyprinus carpio mg/L LC50 semi-static 5300: 96 h Leuciscus idus mg/L LC50 static	500: 48 h Daphnia magna mg/L EC50
Diethylene glycol monobutyl ether	N/A	50 - 70: 96 h Brachydanio rerio	665: 48 h Daphnia magna mg/L

acetate - 124-17-4		mg/L LC50 static 77: 96 h Pimephales promelas mg/L LC50 static	LC50
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone - 55965-84-9	0.11 - 0.16: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.03 - 0.13: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 0.31: 120 h Anabaena flos-aquae mg/L EC50	1.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	0.71 - 0.99: 48 h Daphnia magna mg/L EC50 Static 0.12 - 0.3: 48 h Daphnia magna mg/L EC50 Flow through 4.71: 48 h Daphnia magna mg/L EC50

Persistence and Degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Components	log Pow
Propylene carbonate 108-32-7	0.48
Diethylene glycol monobutyl ether acetate 124-17-4	1.77
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	-0.71 - 0.75

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Do not reuse empty containers.

14. TRANSPORT INFORMATION

DOT

Not regulated.

IATA

Not regulated.

IMDG/IMO

Not regulated.

15. REGULATORY INFORMATION

TSCA 8(b) DSL

All components are listed or exempt
All components are listed or exempt

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Components	Weight-%	SARA 313 - Threshold Values %
Aluminum nitrate nonahydrate - 7784-27-2	1 - 5	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Components	Weight-%	HAPS data
Diethylene glycol monobutyl ether acetate 124-17-4	0.1 - 1.0	Present
Vinyl acetate 108-05-4	< 0.1%	Present
Formaldehyde 50-00-0	< 0.1%	Present
Methyl alcohol 67-56-1	< 0.1%	Present
Acetaldehyde 75-07-0	< 0.1%	Present
1,4-Dioxane 123-91-1	< 0.1%	Present
Ethylene oxide 75-21-8	< 0.1%	Present

CWA (Clean Water Act)

See information supplied by the manufacturer

CERCLA

See information supplied by the manufacturer

US State Regulations

California Proposition 65

Based on information from material suppliers and process knowledge, this product is not known to contain any Proposition 65 listed substances at or above 0.1 weight percent. Please contact the Regulatory Department if additional information is required.

U.S. EPA Label Information

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health Hazard 2	Flammability 0	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 2	Flammability 0	Physical hazards 0	Personal Precautions X

Prepared By

Revision Date

Revision Note

No information available

Verified by Quality Control Department

13-Feb-2020

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet