

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA

GHS

Printing date: 02.02.2017

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

1.1 Product identifier

· Trade name: SRPG-LVOC

· Product code: 5148, 5149

• **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.

· Application of the substance / the mixture: Adhesives

• 1.3 Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier: Duro Dyne Canada Inc. 2365 46E Avenue Lachine, Quebec H8T 3C9 Phone: 514-422-9760

1.4 Emergency telephone number:

ChemTel Inc. (800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200). The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H400, H410. Flam. Liq. 2 H225 Highly flammable liquid and vapour. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation. Lact. H362 May cause harm to breast-fed children. STOT SE 3 H336 May cause drowsiness or dizziness. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Acute 1 H400 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. [•] 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS). The product is classified and labelled according to the CLP regulation. · Hazard pictograms The following pictogram(s) are only for use within Europe: GHS09. (Cont'd. on page 2)

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(Cont'd. from page 1) GHS02 GHS07 GHS08 GHS09 · Signal word Danger · Hazard-determining components of labelling: heptane methyl acetate Alkanes, chloro · Hazard statements The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H410. H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H362 May cause harm to breast-fed children. H336 May cause drowsiness or dizziness. H304 May be fatal if swallowed and enters airways. H410 Very toxic to aquatic life with long lasting effects. · Precautionary statements P201 Obtain special instructions before use. P263 Avoid contact during pregnancy/while nursing. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 Use explosion-proof electrical/ventilating/lighting equipment. P260 Do not breathe mist/vapours/spray. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection. Ground/bond container and receiving equipment. P240 P233 Keep container tightly closed. Use only non-sparking tools. P242 Take precautionary measures against static discharge. P243 Do not eat, drink or smoke when using this product. P270 P271 Use only outdoors or in a well-ventilated area. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. If skin irritation occurs: Get medical advice/attention. P332+P313 If eye irritation persists: Get medical advice/attention. P337+P313 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P301+P310 P331 Do NOT induce vomiting. If exposed or concerned: Get medical advice/attention. P308+P313 P362+P364 Take off contaminated clothing and wash it before reuse. P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction. P405 Store locked up. (Cont'd. on page 3)



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P403+P235 P501	(Cont'd. from page 2) Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations.

• 2.3 Other hazards There are no other hazards not otherwise classified that have been identified. • Results of PBT and vPvB assessment

• **PBT:** Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

[•] 3.2 Mixtures

· Components:		
CAS: 79-20-9 EINECS: 201-185-2 Index number: 607-021-00-X Reg.nr.: 01-2119459211-47-XXXX	methyl acetate Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	40-60%
CAS: 142-82-5 EINECS: 205-563-8 Index number: 601-008-00-2 Reg.nr.: 01-2119457603-38-XXXX	heptane Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; STOT SE 3, H336	20-30%
CAS: 61788-76-9 EINECS: 263-004-3	Alkanes, chloro Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Lact., H362	5-10%

· Additional information:

For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret. For the wording of the listed Hazard Statements refer to section 16.

SECTION 4: First aid measures

[•] 4.1 Description of first aid measures

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately remove any clothing soiled by the product.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

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(Cont'd. from page 3) A person vomiting while laying on their back should be turned onto their side. 4.2 Most important symptoms and effects, both acute and delayed Headache Breathing difficulty Dizziness Coughing Irritant to skin and mucous membranes. Irritating to eyes. Gastric or intestinal disorders when ingested. Nausea in case of ingestion. · Hazards: Danger of impaired breathing. Danger of disturbed cardiac rhythm. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. 4.3 Indication of any immediate medical attention and special treatment needed Medical supervision for at least 48 hours. If swallowed or in case of vomiting, danger of entering the lungs. Later observation for pneumonia and pulmonary oedema. Monitor circulation, possible shock treatment. If necessary oxygen respiration treatment. SECTION 5: Firefighting measures

5.1 Extinguishing media

· Suitable extinguishing agents:

Water haze or fog

Foam

Gaseous extinguishing agents

Fire-extinguishing powder

• For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- [•] 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

• Additional information:

Eliminate all ignition sources if safe to do so.

Cool endangered receptacles with water fog or haze.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation

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Use personal protective equipment as required. Keep away from ignition sources. Protect from heat

[•] 6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

[•] 6.4 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well ventilated areas. Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Avoid breathing mist/vapours/spray.

Keep out of reach of children.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Do not spray onto a naked flame or any incandescent material.

Fumes can combine with air to form an explosive mixture.

Flammable gas-air mixtures may form in empty receptacles.

Emergency cooling must be available in case of nearby fire.

Keep respiratory protective device available.

• 7.2 Conditions for safe storage, including any incompatibilities

· Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame. Provide ventilation for receptacles.

Information about storage in one common storage facility: Store away from foodstuffs.

Store away from oxidising agents.

• Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

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

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8.1 Control parameters					
· Ingredients with limit values that require monitoring at the workplace:					
79-20-9 met					
. ,	Long-term value: 610 mg/m³, 200 ppm				
REL (USA)	Short-term value: 760 mg/m³, 250 ppm Long-term value: 610 mg/m³, 200 ppm				
TLV (USA)	Short-term value: 757 mg/m ³ , 250 ppm Long-term value: 606 mg/m ³ , 200 ppm				
142-82-5 he	ptane				
IOELV (EU)	Long-term value: 2085 mg/m ³ , 500 ppm				
PEL (USA)	Long-term value: 2000 mg/m³, 500 ppm				
REL (USA)	Long-term value: 350 mg/m³, 85 ppm Ceiling limit: 1800* mg/m³, 440* ppm *15-min				
TLV (USA)	Short-term value: 2050 mg/m³, 500 ppm Long-term value: 1640 mg/m³, 400 ppm				
Personal pro General pro The usual pro Keep away f Immediately Pregnant wo Wash hands Do not inhal Avoid contact Respiratory	are controls rotective equipment: recautionary measures are to be adhered to when handling chemicals. recautionary measures are to be adhered to when handling chemicals. remove all soiled and contaminated clothing. omen should strictly avoid inhalation or skin contact. s before breaks and at the end of work. e gases / fumes / aerosols. ct with the eyes and skin. protection: priate NIOSH respirator when ventilation is inadequate and occupational exposure limits ar of hands:				
	tective gloves aterial has to be impermeable and resistant to the product/ the substance/ the preparation.				
· Eye protect					

DURO DYNE

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Body protection: Protective work clothing
 Limitation and supervision of exposure into the environment: Avoid release to the environment.

SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties · Appearance Form: Liauid According to product specification Colour: · Odour: Solvent-like · Odour threshold: Not determined. · pH-value: Not determined. • Melting point/freezing point: Not determined. · Initial boiling point and boiling range: >35 °C (>95 °F) · Flash point: < 23 °C (< 73 °F) · Flammability (solid, gas): Not applicable. • Auto/Self-ignition temperature: Not determined. · Decomposition temperature: Not determined. · Explosive properties: Product is not explosive. However, formation of explosive air/ vapour mixtures are possible. · Explosion limits Lower: Not determined. Upper: Not determined. · Oxidising properties Non-oxidising. · Vapour pressure: Not determined. · Density: **Relative density:** <1 Vapour density: Not determined. **Evaporation rate:** Not determined. · Solubility in / Miscibility with water: Not miscible or difficult to mix. · Partition coefficient: n-octanol/water: Not determined. · Viscosity **Dynamic:** Not determined. **Kinematic:** Not determined. 9.2 Other information No further relevant information available.

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SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: Keep away from heat and direct sunlight. 10.3 Possibility of hazardous reactions

Highly flammable liquid and vapour. Reacts violently with oxidising agents.

Reacts with strong acids.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised. Toxic fumes may be released if heated above the decomposition point.

¹10.4 Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidising agents.

10.5 Incompatible materials Oxidisers

10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide Hydrocarbons Nitrogen oxides (NOx) Chlorine compounds

SECTION 11: Toxicological information

11.1 Information on toxicological effects

· Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

142-82-5 heptane

Oral LD50 > 5000 mg/kg (rat) (Estimate)

· Primary irritant effect

· Skin corrosion/irritation:

Causes skin irritation.

· Serious eye damage/irritation:

Causes serious eve irritation.

· Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

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(Cont'd. from page 8) · Probable routes of exposure: Inhalation Eve contact. Skin contact. · Acute effects (acute toxicity, irritation and corrosivity): Vapours have narcotic effect. Irritating to eyes and skin. • Germ cell mutagenicity: Based on available data, the classification criteria are not met. · Carcinogenicity: Based on available data, the classification criteria are not met. · Reproductive toxicity: May cause harm to breast-fed children. · STOT-single exposure: May cause drowsiness or dizziness. • STOT-repeated exposure: Based on available data, the classification criteria are not met. · Aspiration hazard:

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

[·] 12.1 Toxicity

· Aquatic toxicity: Toxic to aquatic life with long lasting effects.

- * 12.2 Persistence and degradability No further relevant information available.
- * 12.3 Bioaccumulative potential No further relevant information available.

. 12.4 Mobility in soil No further relevant information available.

- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

[•] 12.5 Results of PBT and vPvB assessment

- · PBT: Not applicable.
- · vPvB: Not applicable.

* 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

[•] 13.1 Waste treatment methods

· Recommendation

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

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· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport informatio	n
[·] 14.1 UN-Number [·] DOT, ADR, IMDG, IATA	UN1133
 14.2 UN proper shipping name DOT, IATA ADR, IMDG 	Adhesives ADHESIVES
[•] 14.3 Transport hazard class(es)	
·DOT	
RUMARE LEDT	
· Class · Label	3 Flammable liquids. 3
ADR	
· Class · Label	3 (F1) Flammable liquids. 3
·IMDG	
· Class · Label	3 Flammable liquids. 3
· IATA	
· Class	3 Flammable liquids.
· Label	3
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 14.4 Packing group DOT, ADR, IMDG, IATA 	II
[·] 14.5 Environmental hazards: [·] Marine pollutant:	Product contains environmentally hazardous substances: heptane, Alkanes, chloro Yes Symbol (fish and tree)
 14.6 Special precautions for user Danger code (Kemler): EMS Number: 	Warning: Flammable liquids. 33 F-E,S-D
[•] 14.7 Transport in bulk according to Anne of Marpol and the IBC Code	ex II Not applicable.
· Transport/Additional information:	
· DOT	
as a MARINE POLLUTANT is not required for	POLLUTANT based on MARPOL and DOT rules. Labeling non-bulk single package shipments by motor vehicle, rail aximum capacity of greater than 450L (119 gallons) for a 0kg (882 pounds) for a solid.
• ADR Limited Quantity for packages less than	a 30 kg gross and inner packagings less than 5 L each.
Limited Quantity for packages less than	1 30 kg gross and inner packagings less than 5 L each.
Limited Quantity for packages less than 1 L net.	n 30 kg gross and inner packagings less than 0,5 L each /

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[·] 15.1 Safety, health an or mixture	nd environmental regulations/legislation specific for the substand
United States (USA)	
SARA	
Section 355 (extremely l	nazardous substances):
None of the ingredients an	e listed.
Section 313 (Specific to	xic chemical listings):
None of the ingredients an	e listed.
TSCA (Toxic Substance	s Control Act):
All ingredients are listed.	
Proposition 65 (Californ	
Chemicals known to cau	
None of the ingredients ar	
	use reproductive toxicity for females:
None of the ingredients ar	
	use reproductive toxicity for males:
None of the ingredients an	e listed.
	use developmental toxicity:
None of the ingredients an	
Carcinogenic Categories	
EPA (Environmental Pro	
142-82-5 heptane	
	ncy for Research on Cancer)
None of the ingredients an	
-	itute for Occupational Safety and Health)
None of the ingredients ar	e listed.
Canadian Domestic Sub	stances List (DSL)
All ingredients are listed.	
_	tions and prohibitive regulations
	o concern (SVHC) according to REACH, Article 57
None of the ingredients ar	e listed.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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(Cont'd. from page 12) · Relevant phrases H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H362 May cause harm to breast-fed children. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. Abbreviations and acronyms: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health LDLo: Lowest Lethal Dose Observed Flam. Liq. 2: Flammable liquids - Category 2 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Lact .: Reproductive toxicity - effects on or via lactation STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Asp. Tox. 1: Aspiration hazard - Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com