

H-T-L perma USA, LP Charlotte, NC 28273

Date printed 08.02.2024, Revision 16.01.2023

Version 1.1

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

1.1 Product identifier

perma SPEED LX 100-2 (SF140)

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant uses

Lubricant

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company H-T-L perma USA, LP

10333 Westlake Dr Charlotte, NC 28273 / USA Phone +1(704) 377-3100 Fax +1(704) 377-3106 Homepage www.permausa.com

E-mail info@permausa.com

Address enquiries to

Technical information info@permausa.com

Safety Data Sheet sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Company (800) 997-3762 [8:00 AM – 5:00 PM Eastern Standard Time (EST)]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Sens. 1: H317 May cause an allergic skin reaction.

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200

(HCS 2012)

Hazard pictograms

!

Signal word WARNING

Contains: Dipentylammonium dipentyldithiocarbamate, CAS: 71902-20-0

Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts, CAS: 1471316-72-9 Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts, CAS: 1471316-72-9

Dipentylammonium dipentyldithiocarbamate, CAS: 71902-20-0

Hazard statements H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements GHS.P261-

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing. P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container to in accordance with local/regional/national/international

regulation.



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2.3 Other hazards

Human health dangers Frequent persistent contact with the skin can cause skin irritation.

Other hazards No particular hazards known.

This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

SECTION 3: Composition / Information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
1 - < 5	Dilithium azelate
	CAS: 38900-29-7
1 - < 5	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)
	CAS: 4259-15-8
0,1 - < 1	Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts
	CAS: 1471316-72-9
0,1 - < 1	Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts
	CAS: 1471316-72-9
0,1 - < 0,25	Dipentylammonium dipentyldithiocarbamate
	CAS: 71902-20-0
0,1 - < 0,25	Dipentylammonium dipentyldithiocarbamate
	CAS: 71902-20-0

Comment on component parts

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

Consult a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Dizziness

Nausea, vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Forward this sheet to the doctor.



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SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not

be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

Carbon dioxide (CO2) Carbon monoxide (CO) Sulphur oxides (SOx).

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use personal protective equipment.
Keep away from all sources of ignition.

Some risk of slipping due to spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Keep away from open flames, hot surfaces and sources of ignition.

Do not eat, drink or smoke when using this product.

Remove soiled or soaked clothing.

Wash hands before breaks and after work.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

Cloths contaminated with product should not be kept in trouser pockets.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store together with oxidizing agents.

Keep container tightly closed.

Keep container in a well-ventilated place.

Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

Not applicable

DNEL

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8 Industrial, inhalative, Long-term - systemic effects, 6,6 mg/m³ Industrial, dermal, Long-term - systemic effects, 9,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1,67 mg/m³ general population, dermal, Long-term - systemic effects, 4,8 mg/kg bw/day general population, oral, Long-term - systemic effects, 0,19 mg/kg bw/day Dilithium azelate, CAS: 38900-29-7 Industrial, dermal, Long-term - local effects, 172 µg/cm² general population, dermal, Acute - systemic effects, 23 µg/cm² Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts, CAS: 1471316-72-9 Industrial, inhalative, Long-term - systemic effects, 35,26 mg/m³ Industrial, inhalative, Long-term - systemic effects, 35,26 mg/m³		
Industrial, dermal, Long-term - systemic effects, 9,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1,67 mg/m³ general population, dermal, Long-term - systemic effects, 4,8 mg/kg bw/day general population, oral, Long-term - systemic effects, 0,19 mg/kg bw/day Dilithium azelate, CAS: 38900-29-7 Industrial, dermal, Long-term - local effects, 172 µg/cm² general population, dermal, Acute - systemic effects, 23 µg/cm² Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts, CAS: 1471316-72-9 Industrial, inhalative, Long-term - systemic effects, 35,26 mg/m³		
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Industrial, inhalative, Long-term - systemic effects, 35,26 mg/m³		
Industrial, inhalative, Long-term - systemic effects, 35,26 mg/m³		
Industrial, dermal, Long-term - systemic effects, 25 mg/kg bw/day		
Industrial, dermal, Long-term - systemic effects, 25 mg/kg bw/day		
general population, inhalative, Long-term - systemic effects, 8,7 mg/m³		
general population, inhalative, Long-term - systemic effects, 8,7 mg/m³		
general population, dermal, Long-term - systemic effects, 12.5 mg/kg bw/day		
general population, dermal, Long-term - systemic effects, 12.5 mg/kg bw/day		
general population, oral, Long-term - systemic effects, 2,5 mg/kg bw/day		
general population, oral, Long-term - systemic effects, 2,5 mg/kg bw/day		
Dipentylammonium dipentyldithiocarbamate, CAS: 71902-20-0		
There are no DNEL values established for the substance.		
There are no DNEL values established for the substance.		

PNEC

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8		
freshwater, 4 µg/L		
seawater, 4,6 µg/L		
sewage treatment plants (STP), 3,8 mg/l		
soil, 0,062 mg/kg soil dw		
oral (food), 8,33 mg/kg		
sediment (seawater), 0,032 mg/kg dw		
sediment (freshwater), 0,322 mg/kg dw		
Dilithium azelate, CAS: 38900-29-7		
freshwater, 23 μg/L		
seawater, 2,3 µg/L		
Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts, CAS: 1471316-72-9		
freshwater, 0,1 mg/l		
freshwater, 0,1 mg/l		
seawater, 0,1 mg/l		

Substance



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> seawater, 0,1 mg/l sewage treatment plants (STP), 1000 mg/l sewage treatment plants (STP), 1000 mg/l sediment (freshwater), 45211 mg/kg sediment dw sediment (freshwater), 45211 mg/kg sediment dw sediment (seawater), 45211 mg/kg sediment dw sediment (seawater), 45211 mg/kg sediment dw soil, 36739,74 mg/kg soil dw soil, 36739,74 mg/kg soil dw Dipentylammonium dipentyldithiocarbamate, CAS: 71902-20-0 There are no PNEC values established for the substance There are no PNEC values established for the substance

8.2 Exposure controls

Additional advice on system design Ensure adequate ventilation on workstation.

Eye protection safety glasses (EN 166:2001)

The details concerned are recommendations. Please contact the glove supplier for further Hand protection

information.

> 0,5 mm: Nitrile rubber, >240 min (EN 374-1/-2/-3).

Skin protection Protective clothing (EN 340)

Other Personal protective equipment should be selected specifically for the working place,

depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Avoid contact with eyes and skin.

Respiratory protection Not required under normal conditions.

Thermal hazards No information available.

Delimitation and monitoring of the environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical stateLiquidFormpastyColorlight brownOdorcharacteristic

Odor thresholdNo information available.pH-valueNo information available.pH-value [1%]No information available.

Boiling point or initial boiling point

and boiling range [°C]

> 250 (>482°F)

Flash point [°C] > 200 (>392°F)

Flammability

No information available.

Lower explosion limit

No information available.

Upper explosion limit

No information available.

Oxidizing properties No

Vapor pressure/gas pressure [kPa]No information available.Density [g/cm³]0,94 (25°C / 77,0°F)Relative densityNot determined

Bulk density [kg/m³] No information available.

Solubility in water insoluble

Solubility other solvents No information available.

Partition coefficient n-octanol/water No information available.

(log value)

Kinematic viscosity

No information available.

Relative vapour density

No information available.

Melting point [°C] > 250 (>482°F)

Auto-ignition temperature [°C] No information available.

Decomposition temperature [°C] No information available.

Particle characteristics No information available.

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

Strong heating.



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10.5 Incompatible materials

Strong oxidizing agent.

10.6 Hazardous decomposition products

In the case of heating following (decomposition) products may occure: Carbon dioxide (CO2).
Carbon monoxide (CO).
Sulphurous oxides (SOx).



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product

Based on the information available, the classification criteria have not been fulfilled.

Substance

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8

LD50, oral, Rat, 3100 mg/kg bw

Dilithium azelate, CAS: 38900-29-7

LD50, oral, Rat, 300 mg/kg bw

Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts, CAS: 1471316-72-9

LD50, oral, Rat, >10000 - <20000 mg/kg bw (Lit.)

LD50, oral, Rat, >10000 - <20000 mg/kg bw (Lit.)

Dipentylammonium dipentyldithiocarbamate, CAS: 71902-20-0

LD50, oral, Rat, 300 - 2000 mg/kg bw

LD50, oral, Rat, 300 - 2000 mg/kg bw

Acute dermal toxicity

Product

Based on the information available, the classification criteria have not been fulfilled.

Substance

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8

LD50, dermal, Rabbit, 5000 mg/kg bw

Dilithium azelate, CAS: 38900-29-7

LD50, dermal, Rat, 2000 mg/kg bw

Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts, CAS: 1471316-72-9

LD50, dermal, Rabbit, >2000 mg/kg bw (OECD 402)

LD50, dermal, Rabbit, >2000 mg/kg bw (OECD 402)

Acute inhalational toxicity

Product

Based on the information available, the classification criteria have not been fulfilled.

Substance

Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts, CAS: 1471316-72-9

LC50, inhalative, Rat, >1,9 mg/l air (EPA OPP 81-3)

LC50, inhalative, Rat, >1,9 mg/l air (EPA OPP 81-3)

Serious eye damage/irritation

Based on the information available, the classification criteria have not been fulfilled.

Substance

Dilithium azelate, CAS: 38900-29-7

Rabbit, OECD 406, non-irritating

Skin corrosion/irritation

Based on the information available, the classification criteria have not been fulfilled.

Substance



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Dilithium azelate, CAS: 38900-29-7

OECD 431, non-irritating

OECD 439, non-irritating

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Calculation method

Substance

Dilithium azelate, CAS: 38900-29-7

dermal, mouse, OECD 429, non-sensitizing

Specific target organ toxicity — single exposure

Based on the information available, the classification criteria have not been fulfilled.

Specific target organ toxicity —

Based on the information available, the classification criteria have not been fulfilled.

repeated exposure

Substance

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8

NOAEL, oral, Rat, 125 mg/kg bw/day, no adverse effect observed

Dilithium azelate, CAS: 38900-29-7

NOAEL, dermal, Rat, 298 mg/kg bw/day (systemic effects), no adverse effect observed

NOAEL, dermal, Rat, 230 µg/cm² (local effects), adverse effect observed

Mutagenicity

Based on the information available, the classification criteria have not been fulfilled.

Substance

Dilithium azelate, CAS: 38900-29-7

OECD 471, no adverse effect observed

Reproduction toxicity

Based on the information available, the classification criteria have not been fulfilled.

- Fertility

Substance

Dilithium azelate, CAS: 38900-29-7

NOAEL, Rat, 298,5 mg/kg bw/d (Effect on fertility), no adverse effect observed

NOAEL, Rat, 298,5 mg/kg bw/d (Effect on developmental toxicity, no adverse effect observed

Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts, CAS: 1471316-72-9

NOAEL, oral, Rat, 500 mg/kg bw/d (Effect on fertility), no adverse effect observed

NOAEL, oral, Rat, 500 mg/kg bw/d (Effect on fertility), no adverse effect observed

NOAEL, oral, Rat, 500 mg/kg bw/d (Effect on developmental toxicity), no adverse effect observed

NOAEL, oral, Rat, 500 mg/kg bw/d (Effect on developmental toxicity), no adverse effect observed

- Development

Substance

Dilithium azelate, CAS: 38900-29-7

NOAEL, Rat, 298,5 mg/kg bw/d (Effect on fertility), no adverse effect observed

NOAEL, Rat, 298,5 mg/kg bw/d (Effect on developmental toxicity, no adverse effect observed

Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts, CAS: 1471316-72-9

NOAEL, oral, Rat, 500 mg/kg bw/d (Effect on fertility), no adverse effect observed

NOAEL, oral, Rat, 500 mg/kg bw/d (Effect on fertility), no adverse effect observed

NOAEL, oral, Rat, 500 mg/kg bw/d (Effect on developmental toxicity), no adverse effect observed

NOAEL, oral, Rat, 500 mg/kg bw/d (Effect on developmental toxicity), no adverse effect observed



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Carcinogenicity Based on the information available, the classification criteria have not been fulfilled.

Aspiration hazard Based on the information available, the classification criteria have not been fulfilled.

General remarks Frequent persistent contact with the skin can cause skin irritation.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

SECTION 12: Ecological information

12.1 Toxicity

Product

Based on the information available, the classification criteria have not been fulfilled.

Substance

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8

EL50, (48h), Daphnia magna, 75 mg/l (OECD 202)

NOEC, (21d), Daphnia magna, 0,4 mg/l (OECD 211)

LL50, (96h), Rainbow trout, 4,4 mg/l

ErL50, (72h), Scenedesmus subspicatus, 410 mg/l (OECD 201)

EbL50, (72h), Scenedesmus subspicatus, 240 mg/l (OECD 201)

Dilithium azelate, CAS: 38900-29-7

LC50, (96h), fish, 100 mg/L

EC50, (48h), Crustacea, 100 mg/L

EC50, (72h), Algae, 100 mg/L

Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts, CAS: 1471316-72-9

EL50, (48h), Daphnia magna, >100 mg/l (OECD 202)

EL50, (48h), Daphnia magna, >100 mg/l (OECD 202)

EL50, (72h), Scenedesmus subspicatus, >100 mg/l (OECD 201)

EL50, (72h), Scenedesmus subspicatus, >100 mg/l (OECD 201)

LL50, (96h), Oncorhynchus mykiss, >100 mg/l (OECD 203)

LL50, (96h), Oncorhynchus mykiss, >100 mg/l (OECD 203)

Dipentylammonium dipentyldithiocarbamate, CAS: 71902-20-0

EC50, (48h), Daphnia magna, 0.59 mg/L

EC50, (48h), Daphnia magna, 0.59 mg/L

EC50, (72h), Algae, 16 mg/L

EC50, (72h), Algae, 16 mg/L

12.2 Persistence and degradability

Behaviour in environment

No information available.

compartments

No information available.

Behaviour in sewage plant Biological degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.



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12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

The product is insoluble in water.

Ecological data of complete product are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Coordinate disposal with the authorities if necessary.

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

RCRA Hazard Class (40CFR 261)

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

SECTION 14: Transport

14.1 UN number

Transport by land according to

ADR/RID

Not applicable

Inland navigation (ADN)

Not applicable

Marine transport in accordance with

IMDG

Not applicable

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable

CFR)

14.2 UN proper shipping name

Transport by land according to

ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN)

NO DANGEROUS GOODS

IMDG

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

DOT Road Shipment Information (49 NOT CLASSIFIED AS "DANGEROUS GOODS"

CFR)



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14.3 Transport hazard class(es)

Transport by land according to ADR/RID

Not applicable

Inland navigation (ADN)

Not applicable

Marine transport in accordance with **IMDG**

Air transport in accordance with IATA Not applicable

CFR)

DOT Road Shipment Information (49 Not applicable

14.4 Packing group

Transport by land according to

ADR/RID

Not applicable

Inland navigation (ADN)

Not applicable

Marine transport in accordance with Not applicable

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable

CFR)

14.5 Environmental hazards

Transport by land according to

ADR/RID

No

Inland navigation (ADN)

No

Marine transport in accordance with No

IMDG

Air transport in accordance with IATA No

DOT Road Shipment Information (49 No

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable



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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US Regulations

National regulations 29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA,

TSCA, California - Prop. 65

SARA, 302 This product does not contain any ingredients regulated under this list.
 SARA, 311 This product does not contain any ingredients regulated under this list.
 SARA, 313 This product does not contain any ingredients regulated under this list.

- CA Proposition 65 No components require labeling under California Proposition 65.

- TSCA All chemical substances in this material are included on or exempted from listing on the TSCA

Inventory.

- FDA No information available.

American Conference of

Governmental Industrial Hygienists -

ACGIH

International Agency for Research on Ingredients not listed as carcinogens.

Cancer IARC

National Toxicology Program - NTP This product is not named NTP - National Toxicology Program.

HAP-VOC Not applicable

Transport-regulations DOT-Classification, ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

Ingredients not listed as carcinogens.

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.



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SECTION 16: Other information

16.1 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route:

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses;

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure;

CAS = Chemical Abstracts Service;

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;

CFR = Code of Federal Regulations;

CPR = Controlled Products Regulations;

DMEL = Derived Minimum Effect Level;

DNEL = Derived No Effect Level;

DOT = Department of Transportation;

EC50 = Median effective concentration;

EPA = Environmental Protection Agency:

GHS = Globally Harmonized System of Classification and Labelling of Chemicals;

IATA = International Air Transport Association;

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk;

IC50 = Inhibition concentration, 50%;

IMDG = International Maritime Code for Dangerous Goods;

IARC = International Agency of Research on Cancer;

IATA = International Air Transport Association;

TSCA = Toxic Substance Control Act;

HMIS = Hazardous Materials Identification System;

NFPA = National Fire Protection Association;

NIOSH = National Institute for Occupational Safety and Health;

OSHA = Occupational Safety and Health Administration;

LC50 = Lethal concentration, 50%;

LD50 = Median lethal dose, 50%;

MARPOL = International Convention for the Prevention of Marine Pollution from Ships;

PBT = Persistent, Bioaccumulative and Toxic substance;

PNEC = Predicted No-Effect Concentration;

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;

SARA = Superfund Amendments and Reauthorization Act;

TLV®/TWA = Threshold limit value - time-weighted average;

TLV®STEL = Threshold limit value – short-time exposure limit;

VOC = Volatile Organic Compounds;

vPvB = very Persistent and very Bioaccumulative;

16.2 Ratings



H-T-L perma USA, LP Charlotte, NC 28273

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NFPA Ratings



TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 0 - Minimal Hazard BOTTOM, SPECIAL NOTICE: 20.NFPA.X0

HMIS Ratings



- 2 Moderate Hazard
- 1 Slight Hazard
- 0 Minimal Hazard
- X Personal protection rating to be supplied by user depending on use conditions

PERSONAL PROTECTION:

- A Safety Glasses
- B Safety Glasses and Gloves
- C Safety Glasses, Gloves and Protection Apron
- D Face Shield, Gloves and Protection Apron
- E Safety Glasses, Gloves and Dust Respirator
- F Safety Glasses, Gloves, Protection Apron and Dust Respirator
- G Safety Glasses, Gloves and Vapor Respirator.
- H Splash Goggles, Gloves, Protection Apron and Vapor Respirator.
- I Safety Glasses, Gloves, Dust Respirator and Vapor Respirator.
- J Splash Goggles, Gloves, Protection Apron, Dust Respirator and Vapor Respirator.
- K Airline Mask or Hood, Gloves, Full Suit and Boots.
- X Personal protection rating to be supplied by user depending on use conditions

Modified position

1.2, 1.3, 3.2, 8.1, 9.1, 11.1, 11.2, 12.6, 12.7, 15.1, 16.2, 16.3

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