

Safety Data Sheet



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • Alnox (standard) Electrical Joint Compound

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

Relevant identified use(s) • Corrosion inhibitor.

1.3 Details of the supplier of the safety data sheet

Manufacturer • AFL Telecommunications
170 Ridgeview Circle
Duncan, SC 29334
United States

Telephone (General) • 1-864-433-0333

1.4 Emergency telephone number

Manufacturer • 1-800-866-3941 Ext. 5577 - USA

Manufacturer • 1-864-433-5577

Section 2: Hazards Identification

EU/EEC

According to EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

- | | |
|----------------|---|
| CLP | <ul style="list-style-type: none"> • Skin Irritation 2 - H315 • Skin Sensitization 1 - H317 • Eye Irritation 2 - H319 • Carcinogenicity 2 - H351 • Specific Target Organ Toxicity Repeated Exposure 1 - H372 |
| DSD/DPD | <ul style="list-style-type: none"> • Toxic (T) • Irritant (Xi) • Carcinogenic Substances - Category 3 • R36/38, R40, R43, R48/23 |

2.2 Label Elements

CLP

DANGER



- Hazard statements**
- H315 - Causes skin irritation
 - H317 - May cause an allergic skin reaction
 - H319 - Causes serious eye irritation
 - H351 - Suspected of causing cancer.
 - H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention**
- P201 - Obtain special instructions before use.
 - P202 - Do not handle until all safety precautions have been read and understood.
 - P260 - Do not breathe fume/mist/vapours/spray.
 - P264 - Wash thoroughly after handling.
 - P270 - Do not eat, drink or smoke when using this product.
 - P272 - Contaminated work clothing should not be allowed out of the workplace.
 - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 - P281 - Use personal protective equipment as required.
- Response**
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 - P362 - Take off contaminated clothing and wash before reuse.
 - P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P337+P313 - If eye irritation persists: Get medical advice/attention.
 - P321 - Specific treatment, see supplemental first aid information.
 - P314 - Get medical advice/attention if you feel unwell.
 - P308+P313 - IF exposed or concerned: Get medical advice/attention.
- Storage/Disposal**
- P405 - Store locked up.
 - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



- Risk phrases**
- R36/38 - Irritating to eyes and skin.
 - R40 - Limited evidence of a carcinogenic effect.
 - R43 - May cause sensitisation by skin contact.
 - R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation.
- Safety phrases**
- S24 - Avoid contact with skin.
 - S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - S37 - Wear suitable gloves.
 - S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 - S53 - Avoid exposure - obtain special instructions before use.

2.3 Other Hazards

- CLP**
- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
- DSD/DPD**
- According to European Directive 1999/45/EC this preparation is considered dangerous.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

- OSHA HCS 2012**
- Skin Irritation 2 - H315
 - Skin Sensitization 1A - H317
 - Eye Irritation 2 - H319
 - Carcinogenicity 2 - H351
 - Specific Target Organ Toxicity Repeated Exposure 2 - H373

2.2 Label elements

OSHA HCS 2012

DANGER



- Hazard statements**
- H315 - Causes skin irritation
 - H317 - May cause an allergic skin reaction
 - H319 - Causes serious eye irritation
 - H351 - Suspected of causing cancer.
 - H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention**
- P201 - Obtain special instructions before use.
 - P202 - Do not handle until all safety precautions have been read and understood.
 - P260 - Do not breathe fume/mist/vapours/spray.
 - P264 - Wash thoroughly after handling.
 - P270 - Do not eat, drink or smoke when using this product.
 - P272 - Contaminated work clothing should not be allowed out of the workplace.
 - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 - P281 - Use personal protective equipment as required.

- Response**
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 - P362 - Take off contaminated clothing and wash before reuse.
 - P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P337+P313 - If eye irritation persists: Get medical advice/attention.
 - P314 - Get medical advice/attention if you feel unwell.
 - P309+P311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
 - P321 - Specific treatment, see supplemental first aid information.
 - P308+P313 - IF exposed or concerned: Get medical advice/attention.

- Storage/Disposal**
- P405 - Store locked up.
 - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

2.2 Label elements

WHMIS



- Other Toxic Effects - D2B

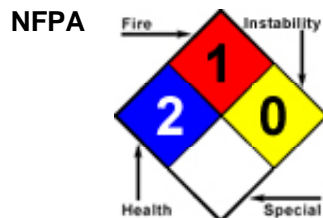
2.3 Other hazards

WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

2.4 Other information

- This product is not considered flammable or combustible but will burn if ignited.



See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Hazardous Components					
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	CAS:64742-52-5 EC Number:265-155-0	60% TO 100%	NDA	EU DSD/DPD: Annex I - Carc. Cat. 2; R45 EU CLP: Annex VI - Carc. 1B H350 OSHA HCS 2012: Skin Irrit. 2	Annex VI and Annex I carcinogen classifications are not applicable this component contains less than 3% DMSO.
Nickel	CAS:7440-02-0 EC Number:231-111-4	10% TO 30%	NDA	EU DSD/DPD: Annex I - Carc.Cat.3; R40 T; R48/23 R43 EU CLP: Annex VI - Carc. 2 H351, STOT RE 1 H372**, Skin Sens. 1 H317 OSHA HCS 2012: Carc. 2; Skin Sens. 1A	NDA
Aluminum	CAS:7429-90-5 EC Number:231-072-3 UN:UN1396 (powder, uncoated)	1% TO 5%	NDA	EU DSD/DPD: Annex I - F; R11; R15 EU CLP: Annex VI - Water-react. 2 H261; Flam. Sol. 1 H228 OSHA HCS 2012: STOT RE Cat 2 - Lungs, Inhalation	NDA

See Section 11 for Toxicological Information. See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- Remove to fresh air. If unconscious or severely injured, check for clear airway, breathing and presence of pulse. Perform CPR if there is no pulse or respiration. Consult a physician.

Skin

- Wash skin with soap and water. Consult a physician if irritation persists.

- Eye**
- IF IN EYES: 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**
- If swallowed, dilute by drinking large amounts of water. Never give anything by mouth to a convulsing or unconscious person. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to Physician**
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

See Section 2 for Potential Health Effects.

Section 5 - Firefighting Measures

5.1 Extinguishing media

- Suitable Extinguishing Media**
- SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.
LARGE FIRE: Water spray, fog or regular foam.

- Unsuitable Extinguishing Media**
- No data available

5.2 Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Not an explosion hazard. While not considered "flammable" or "combustible" as defined by OSHA or DOT, the material will burn if ignited.
- Hazardous Combustion Products**
- May include, and are not limited to: oxides of carbon.

5.3 Advice for firefighters

- Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate. Move containers from fire area if you can do it without risk. Use water spray to minimize vapors and cool containers exposed to heat or flame. Heavy streams of water, when directed into burning liquid, will cause frothing and spread of burning material.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- Take proper precautions to minimize exposure by using appropriate personal protective equipment.
- Emergency Procedures**
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

6.2 Environmental precautions

- Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

- Containment/Clean-up Measures**
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Spills may be slippery and potentially hazardous to personnel or mobile equipment due to reduced traction.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Avoid contact with skin, eyes or clothing. Avoid generating mists or vapors. Spills may be slippery and potentially hazardous to personnel or mobile equipment due to reduced traction.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Keep container closed when not in use. Store away from heat, sparks, flames, oxidizers, and other incompatible substances. Empty containers may contain residual product. Do not cut or weld on containers.

Incompatible Materials or Ignition Sources

- Oxidizers

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Canada Quebec	NIOSH	OSHA
Aluminum (7429-90-5)	TWAs	1 mg/m ³ TWA (respirable fraction)	1 mg/m ³ TWA (respirable)	10 mg/m ³ TWAEV	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)
Nickel (7440-02-0)	TWAs	1.5 mg/m ³ TWA (inhalable fraction)	1 mg/m ³ TWA (inhalable)	1 mg/m ³ TWAEV	0.015 mg/m ³ TWA	1 mg/m ³ TWA

8.2 Exposure controls

Engineering Measures/Controls

- Use only with adequate ventilation to keep exposures (airborne levels of dust, fume, vapor etc) below recommended exposure limits.

Personal Protective Equipment

Pictograms



Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear safety glasses/goggles to avoid eye contact.

Skin/Body

- Wear impervious gloves to avoid direct skin contact.

General Industrial Hygiene Considerations

- Minimize breathing oil vapors and mist. Remove grease contaminated clothing; launder or dry-clean before reuse. Remove grease contaminated shoes and thoroughly clean and dry before reuse. Cleanse skin thoroughly after contact, before breaks and meals, and at the end of the work period. Grease is readily removed from skin with waterless hand cleaners followed by a thorough washing with soap and water.

Environmental Exposure Controls

- Follow best practice for site management and disposal of waste.

Key to abbreviationsTWA_{EV} = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

Section 9 - Physical and Chemical Properties**9.1 Information on Physical and Chemical Properties**

Material Description			
Physical Form	Liquid	Appearance/Description	Gray grease with grit and slight odor.
Color	Gray	Odor	Slight odor.
Taste	No data available.	Particulate Type	Not relevant
Particulate Size	Not relevant	Aerosol Type	Not relevant
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	Heat of Decomposition	Data lacking
pH	Not relevant	Specific Gravity/Relative Density	1.29 Water=1
Density	Data lacking	Bulk Density	Data lacking
Water Solubility	Negligible	Solvent Solubility	Data lacking
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	< 0.01 mmHg (torr) @ 20 C(68 F)	Vapor Density	Data lacking
Evaporation Rate	Data lacking	VOC (Wt.)	Data lacking
VOC (Vol.)	Data lacking	Volatiles (Wt.)	Data lacking
Volatiles (Vol.)	Data lacking		
Flammability			
Flash Point	363 F(183.8889 C)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Self-Accelerating Decomposition Temperature (SADT)	Data lacking	Heat of Combustion (ΔH_c)	Data lacking
Burning Time	Data lacking	Flame Duration	Data lacking
Flame Height	Data lacking	Flame Extension	Data lacking
Ignition Distance	Data lacking	Flammability (solid, gas)	Data lacking
Environmental			
Half-Life	Data lacking	Octanol/Water Partition coefficient	Data lacking
Coefficient of water/oil distribution	Data lacking	Bioaccumulation Factor	Data lacking
Bioconcentration Factor	Data lacking	Biochemical Oxygen Demand BOD/BOD ₅	Data lacking
Chemical Oxygen Demand	Data lacking	Persistence	Data lacking

Degradation

Data lacking

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Excess heat. Incompatible materials.

10.5 Incompatible materials

- Oxidizers

10.6 Hazardous decomposition products

- Oxides of carbon.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Component Name	CAS	Data
Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) (60% TO 100%)	64742-52-5	Irritation: skn-rbt 500 mg SEV
Nickel (10% TO 30%)	7440-02-0	Acute Toxicity: orl-rat TDLo:500 mg/kg/5D-I; ihl-rat TCLo:0.4 mg/m ³ /40W-I; Reproductive: orl-rat TDLo:158 mg/kg (multigenerations)
Aluminum (1% TO 5%)	7429-90-5	Acute Toxicity: ihl-man TCLo:4 mg/m ³ /1Y-I; ihl-rat TCLo:206 mg/m ³ /5H/30D-I

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Carcinogenicity 2 OSHA HCS 2012 • Carcinogenicity 2
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2

Skin sensitization	EU/CLP • Skin Sensitizer 1 OSHA HCS 2012 • Skin Sensitizer 1A
STOT-RE	EU/CLP • Specific Target Organ Toxicity Repeated Exposure 1 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2
STOT-SE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2

Target Organs

- Lungs

Route(s) of entry/exposure

- Inhalation, Skin, Eye, Ingestion

Medical Conditions Aggravated by Exposure

- Skin rashes, and, if overheated, asthma and chronic lung disease.

Potential Health Effects**Inhalation****Acute (Immediate)**

- May cause irritation.

Chronic (Delayed)

- Inhalation of nickel or aluminum can cause pulmonary fibrosis.

Skin**Acute (Immediate)**

- May cause irritation. May cause skin sensitization. Symptoms include redness, and skin rash.

Chronic (Delayed)

- Dermatitis may result from prolonged or repeated exposure.

Eye**Acute (Immediate)**

- May cause irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Chronic (Delayed)

- No chronic effects expected.

Ingestion**Acute (Immediate)**

- May cause gastrointestinal disturbances including diarrhea, nausea, and vomiting.

Chronic (Delayed)

- No chronic effects expected.

Mutagenic Effects

- Mutagenic effects not expected.

Carcinogenic Effects

- No information available for the product. Nickel metal IARC/NTP: Listed as "reasonably anticipated to be a human carcinogen" by the NTP. Listed as "possibly carcinogenic" to humans by IARC (Group 2B).

Carcinogenic Effects			
	CAS	IARC	NTP
Nickel	7440-02-0	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen

Reproductive Effects

- No reproductive effects expected.

Key to abbreviations

TC = Toxic Concentration

TD = Toxic Dose

SEV = Severe

Section 12 - Ecological Information

12.1 Toxicity

- No information available for the product.

12.2 Persistence and degradability

- No information available for the product.

12.3 Bioaccumulative potential

- No information available for the product.

12.4 Mobility in Soil

- No information available for the product.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted. PBT and vPvB assessment has not been conducted for this material.

12.6 Other adverse effects

Potential Environmental Effects

- May cause long-term adverse effects in the aquatic environment.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- Reuse or recycle material whenever possible. Material may be disposed of at a chemically secure landfill. All wastes containing the material should be properly labeled. Dispose of any waste residues according to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Not federally regulated in the U.S. if disposed of "as is." Otherwise, characterize in accordance with applicable regulations (40 CFR 261 or state equivalent in the U.S.)

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user

- No special precautions.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Not relevant.

Section 15 - Regulatory Information

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

SARA Hazard Classifications • Acute, Chronic

State Right To Know				
Component	CAS	MA	NJ	PA
Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	No	No	No
Nickel	7440-02-0	Yes	Yes Yes	Yes Yes
Aluminum	7429-90-5	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Yes	No	Yes	No	Yes
Nickel	7440-02-0	Yes	No	Yes	No	Yes
Aluminum	7429-90-5	Yes	No	Yes	No	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) 64742-52-5 60% TO 100% Not Listed
- Aluminum 7429-90-5 1% TO 5% B6 (powder); Uncontrolled product according to WHMIS classification criteria
- Nickel 7440-02-0 10% TO 30% D2A, D2B; B6, D2A (Raney)

Canada - WHMIS - Ingredient Disclosure List

- Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) 64742-52-5 60% TO 100% Not Listed
- Aluminum 7429-90-5 1% TO 5% 1 %
- Nickel 7440-02-0 10% TO 30% 0.1 %

Environment

Canada - CEPA - Priority Substances List

- Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) 64742-52-5 60% TO 100% Not Listed

• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	Not Listed

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Carc.Cat.2; R45
• Aluminum	7429-90-5	1% TO 5%	F; R11 R15 (stabilized)
• Nickel	7440-02-0	10% TO 30%	Carc.Cat.3; R40 R43 T; R48/23

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	T R:45 S:53-45
• Aluminum	7429-90-5	1% TO 5%	F R:11-15 S:(2)-7/8-43
• Nickel	7440-02-0	10% TO 30%	T R:40-43-48/23 S:(2)-36/37/39-45

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	L
• Aluminum	7429-90-5	1% TO 5%	T
• Nickel	7440-02-0	10% TO 30%	S, 7

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	S:53-45
• Aluminum	7429-90-5	1% TO 5%	S:(2)-7/8-43
• Nickel	7440-02-0	10% TO 30%	S:(2)-36/37/39-45

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	Not Listed

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

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed	
• Aluminum	7429-90-5	1% TO 5%	Not Listed	
• Nickel	7440-02-0	10% TO 30%		100 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed	
• Aluminum	7429-90-5	1% TO 5%		1.0 % de minimis concentration (dust or fume only)
• Nickel	7440-02-0	10% TO 30%		0.1 % de minimis concentration

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	Included in waste streams: F006, F039

U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	(total)

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	hazardous constituent - no waste number

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	(total)

U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	3.98 mg/L (wastewater); 11.0 mg/L TCLP (nonwastewater)

U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	(total)

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	carcinogen, initial date 10/1/89 (metallic)

U.S. - California - Proposition 65 - Developmental Toxicity

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	
• Nickel	7440-02-0	10% TO 30%	

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Not Listed
• Nickel	7440-02-0	10% TO 30%	

United States - Rhode Island**Labor****U.S. - Rhode Island - Hazardous Substance List**

• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	60% TO 100%	Not Listed
• Aluminum	7429-90-5	1% TO 5%	Toxic (dust, powder, welding fumes); Flammable (dust, powder, welding fumes)
• Nickel	7440-02-0	10% TO 30%	Toxic; Carcinogen

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information**Relevant Phrases (code & full text)**

- H228 - Flammable solid
- H261 - In contact with water releases flammable gas
- H350 - May cause cancer.
- R11 - Highly flammable.
- R15 - Contact with water liberates extremely flammable gases.
- R45 - May cause cancer.

Last Revision Date

- 20/July/2012

Preparation Date

- 18/December/2002

Disclaimer/Statement of Liability

- INFORMATION HEREIN IS GIVEN IN GOOD FAITH AS AUTHORITATIVE AND VALID; HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED, CAN BE MADE.

Key to abbreviations

NDA = No Data Available