SECTION 1 – IDENTIFICATION

Trade Name: ASO22 Antiseize **Product No.:** CH122
Typical Use: Degreasing equipment and general cleaning
Supplier's Name: Lonestar Maintenance Chemicals **Emergency Phone:** 1-800-721-2448
Address: P.O. Box 209, Buna, TX 77612

SECTION 2 – HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Skin Sens. 1; H317	May cause an allergic skin reaction. Suspected of causing cancer.
STOT RE 1; H372	Causes damage to organs through prolonged or repeated exposure. Specific target organs: lungs.

2.2 Label elements

Using the Toxicity Data listed in Section 11 and 12, the product is labeled as follows:

H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure

Label Pictogram:

Signal Word: **DANGER**

Prevention:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust, fume, gas, mist, vapors and 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, eye protection and face protection.

Response:

P302 + 352	IF ON SKIN: Wash with plenty of soap and water.
P308 + 313	If exposed or concerned: get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see information on this label).
P333 + 313	If skin irritation or a rash occurs: get medical advice/attention.
P363	Wash contaminated clothing before re-use.

Storage:

P450	Store locked up.

Disposal:

P501	Dispose of contents/container, in accordance with local and national regulations.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient / Chemical Designation	Weight %	GHS Classification	Notes
Polybutene CAS Number: 0009003-29-5-6	50 – 75	Not classified	[1]
Graphite CAS Number: 0007782-423-5	10 – 25	Not classified	[1] [2]
Aluminum (Al) CAS Number: 0007429-90-5	1 - 5	Pyr. Sol. 1: H250 Water React. 2; H261	[1] [2]
Mineral Oil CAS Number: 0008042-47-5	1 - 5	Asp. Tox. 1; H304	[1]
Nickel CAS Number: 0007440-02-0	1 - 5	Carc. 2 STOT RE 1; H372; H351 Skin Sens. 1; H317 Aquatic Chronic 3; H412	[1] [2]
Amorphous fumed silica CAS Number: 0112945-52-5	1 - 5	Combustible Dust	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.
[1] Substance classified with a health or environmental hazard.
[2] Substance with a workplace exposure limit.
[3] PBT – substance or vPvB – substance.
*The full texts of the phrases are shown in Section 16.

SECTION 4 – FIRST AID MEASURES

4.1 Description of first aid measures:

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes: Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion: If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Overview:

Skin: Defatting to the skin. Prolonged or repeated exposure can cause irritation and dermatitis.

Eyes: Eye irritant. May cause redness, tearing and blurred vision.

Inhalation: Not expected.

Ingestion: May cause nausea, vomiting or diarrhea. Possible

Contains an ingredient which may cause cancer based on animal data (see Section 3 and Section15 for each ingredient). Risk of cancer depends on duration and level of exposure. See Section 2 for further details.

Skin: May cause an allergic skin reaction.

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Extinguishing media
Foam, CO2, halon or dry chemical.

5.2 Special hazards arising from the substance or mixture
Drums heated by fire can support combustion.
Hazardous decomposition: carbon monoxide.
Avoid breathing dust, fume, gas, mist, vapors or spray.

5.3 Advice for fire-fighters
Avoid use of water streams, if ignited, product may produce dense smoke, fire-fighters should wear self-contained breathing apparatus.

ERG Guide No.: ---

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Put on appropriate personal protective equipment (see Section 8).
Drums heated by fire can support combustion.

6.2 Environmental precautions
Do not allow spills to enter drains or waterways.
Use good personal hygiene practiced. Wash hands before eating, drinking, smoking or using toilet.
Promptly remove soiled clothing and wash thoroughly before re-use.

6.3 Methods and material for containment and cleaning up
Drums heated by fire can support combustion.
Mop up or otherwise absorb and hold for disposal.

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for safe handling
See Section 2 for further details. [Prevention]

7.2 Conditions for safe storage, including any incompatibilities
Keep out of reach of children. For use by trained personnel only.
Keep container closed during storage. For industrial and institutional use only.
Incompatible materials: strong oxidizers, concentrated oxygen.
See Section 2 for further details. [Storage]

7.3 Specific end use(s)
No data available.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0007429-90-5	Aluminum (Al)	OSHA	TWA 15 mg/m3 (total TWA 5 mg/m3 (resp)
		ACGIH	TWA 1.0 mg/m3 Revised 2008
		NIOSH	TWA 10 mg/m3 (total TWA 5 mg/m3 (resp)
		Supplier	No established limit.
0007440-02-0	Nickel	OSHA	TWA 1 mg/m3 [***Note**: The PEL does not apply to Nickel carbonyl.]
		ACGIH	Insoluble TWA: 0.05 mg/m3 A1, 1, (l) Soluble TWA: 0.04 mg/m3 A1, 1, 2B, (l)
		NIOSH	Ca TWA 0.015 mg/m3 [***Note**: The REL does not apply to Nickel carbonyl.]
		Supplier	No established limit.
0007782-42-5	Graphite	OSHA	TWA 15 mg/m3 TWA 15 mppcf
		ACGIH	TWA 2 mg/m3
		NIOSH	TWA 2.5 mg/m3 (resp)
		Supplier	No established limit.
0008042-47-5	Mineral oil	OSHA	No established limit.
		ACGIH	No established limit.
		NIOSH	No established limit.
		Supplier	No established limit.
0009003-29-6	Polybutene	OSHA	No established limit.
		ACGIH	No established limit.
		NIOSH	No established limit.
		Supplier	No established limit.
0112945-52-5	Amorphous fumed silica	OSHA	No established limit.
		ACGIH	No established limit.
		NIOSH	No established limit.
		Supplier	No established limit.

Contains mineral oil. The exposed limits for oil mist are 5 mg/m3 OSHA PEL and 10 mg/m3 ACGIH.

Carcinogen Data

CAS No.	Ingredient	Source	Value
0007429-90-5	Aluminum (Al)	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
0007440-02-0	Nickel	OSHA	Select Carcinogen: Yes
		NTP	Known: Yes; Suspected: Yes
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No
0007782-42-5	Graphite	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No

0008042-47-5	Mineral Oil	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
0009003-29-6	Polybutene	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
0112945-52-5	Amorphous fumed silica	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No

8.2 Exposure controls

Respiratory: If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
Eyes: Safety glasses or face shield if method of dispensing promotes splashing.
Skin: Safety gloves are recommended.
Engineering controls: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other work practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using the toilet. Promptly remove soiled clothing and wash thoroughly before re-use.

See Section 2 for further details. [Prevention]

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Gray-Silver paste
Odor: Hydrocarbon
Odor threshold: Not determined
pH: Not measured
Melting point/freezing point: Not measured
Initial boiling point and boiling range: 600º F +
Flash point: 450º F (TCC)
Evaporation rate (Ether = 1): < 1
Flammability (solid/gas) Not applicable
Upper/lower flammability or explosive limits: **Lower explosive limit:** Not measured
Upper explosive limit: Not measured
Vapor pressure (Pa) < 10
Vapor density: > 1
Specific gravity: 1.18
Solubility in water: Not measured
Partition coefficient n-octanol/water (LogKow) Not measured
Auto-ignition temperature: Not measured
Decomposition temperature: Not evaluated
Viscosity (cSt): Not measured
% Volatile: 0%
Texture Thick, oily texture

9.2 Other information
No other relevant information.

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity
Hazardous polymerization will not occur.

10.2 Chemical stability
Stable under normal circumstances.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
No data available.

10.5 Incompatible materials
Strong oxidizers, concentrated oxygen.

10.6 Hazardous decomposition products
Carbon monoxide.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity

Ingredient		Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation dust/mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Polybutene	9003-29-6	No data available	No data available	No data available	No data available	No data available
Graphite	7782-42-5	No data available	No data available	No data available	No data available	No data available
Aluminum (Al)	7429-90-5	No data available	No data available	No data available	No data available	No data available
Mineral oil	8042-47-5	> 5,000.00, Rat – Category: NA	No data available	No data available	No data available	No data available
Nickel	7440-02-0	No data available	No data available	No data available	No data available	No data available
Amorphous fumed silica	112945-52-5	3,160.00, Rat - Category: 5	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not applicable
Acute toxicity (dermal)	---	Not applicable
Acute toxicity (inhalation)	---	Not applicable
Skin corrosion / irritation	---	Not applicable
Serious eye damage / irritation	---	Not applicable
Respiratory sensitization	---	Not applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not applicable

Carcinogenicity	2	Suspected of causing cancer.
Reproductive toxicity	---	Not applicable
STOT – single exposure	---	Not applicable
STOT – repeated exposure	1	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	---	Not applicable

SECTION 12 – ECOLOGICAL INFORMATION

12.1 Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See Section 3 for details.

Aquatic ecotoxicity

Ingredient		96 hr LC fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Polybutene	9003-29-6	Not available	Not available	Not available
Graphite	7782-42-5	Not available	Not available	Not available
Aluminum (Al)	7429-90-5	Not available	Not available	Not available
Mineral oil	8042-47-5	Not available	Not available	Not available
Nickel	7440-02-0	Not available	Not available	Not available
Amorphous fumed silica	112945-52-5	Not available	Not available	Not available

12.2 Persistence and degradability

There is no data available on the preparation itself.

12.3 Bio-accumulative potential

Not measured.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6 Other adverse effects

No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

SECTION 14 – TRANSPORTATION INFORMATION

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO / IATA
14.1 UN Number	Not applicable	Not regulated	Not regulated
14.2 UN Proper shipping name	Not regulated	Not regulated	Not regulated
14.3 Transport hazard class(es)	**DOT Hazard Class:** Not applicable	**IMDG:** Not applicable **Sub class:** Not applicable	**Air class:** Not applicable
14.4 Packing group	Not applicable	Not applicable	Not applicable

14.5 Environmental hazards	**IMDG** Marine pollutant: No		
14.6 Special precautions for user	No further information		

SECTION 15 – REGULATORY INFORMATION

Regulatory overview: The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA): All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification: D2

US EPA Tier II Hazards:

Fire	No
Sudden Release of Pressure:	No
Reactive:	No
Immediate (Acute):	Yes
Delayed (Chronic):	Yes

EPCRA 311/312 Chemicals and RQs (lbs):
Nickel (100.00)

EPCRA 302 Extremely Hazardous:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:
Aluminum (Al)
Nickel

Proposition 65 – Carcinogens (> 0.0%):
Nickel

Proposition 65 – Developmental Toxins (> 0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 – Female Repro Toxins (> 0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 – Male Repro Toxins (> 0.0%):
To the best of our knowledge, there are not chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):
Aluminum (Al)
Graphite
Nickel

Pennsylvania RTK Substances (>1%):
Aluminum (Al)
Graphite
Nickel

SECTION 16 – OTHER INFORMATION

The full text of the phrases appearing in Section 3 is:

H250	Catches fire spontaneously if exposed to air.
H261	In contact with water releases flammable gases.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the user. No suggestions for use are intended as, and nothing herein shall be construed as a recommendation to infringe any existing patents or violate any federal, state or local laws, rules, regulations or ordinances.