SAFETY DATA SHEET

1. Identification

Product identifier **ALC 914**

Other means of identification
SDS number **KWAR-20**

Version # **01**
Revision date December 9, 2022.

Recommended use Can sheet lubricant

Recommended restrictions For industrial use only.

Manufacturer/Importer/Supplier/Distributor information
Manufacturer

Kaiser Aluminum Warrick
4000 W. State Route 66
Newburgh, IN 47629
USA Health and Safety Tel: 1-412-992-5499

Emergency Information CHEMTREC: +1-703-527-3887 +1-800-424-9300 (24 Hour Emergency Telephone, multiple languages spoken); Kaiser Warrick: +1-877-335-9886 (24 Hour Emergency Telephone, only English spoken)

Website For a current Safety Data Sheet, refer to Kaiser website: https://www.kaiseraluminum.com/customer-portal/safety-data-sheets.

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Hazardous to the ozone layer Not applicable
OSHA defined hazards Not classified.

The mixture does not meet the criteria for classification.

Label elements

Hazard symbol None.
Signal word <Signal word : Not required.>.
Hazard statement The mixture does not meet the criteria for classification.
Precautionary statement
Prevention Wear protective gloves. Wash thoroughly after handling.
Response Not applicable.
Storage Store away from incompatible materials. Keep away from heat, sparks and open flame - No smoking.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.
Supplemental information The mixture does not meet the criteria for classification.
Specific hazards Material will burn if ignited. Direct contact: Can cause irritation of the eyes and skin. Vapors and mists: Can cause irritation of the respiratory tract. Acute overexposures: Can cause bronchitis, and central nervous system effects.

3. Composition/information on ingredients

Composition comments Complete composition is provided below and may include some components classified as non-hazardous.

Mixtures

Chemical name	Common name and synonyms	CAS number	%
* Fatty ester		* Proprietary	≥20
*Petroleum derived mixture		*Proprietary	≥20

Additional Information * - Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Eye contact Rinse eyes with plenty of water or saline for at least 15 minutes. Consult a physician.

Skin contact Wash with soap and water for at least 15 minutes. Get medical attention if irritation develops and persists.

Inhalation Remove to fresh air. Check for clear airway, breathing, and presence of pulse. If breathing is difficult, provide oxygen. Loosen any tight clothing on neck or chest. Provide cardiopulmonary resuscitation for persons without pulse or respirations. Consult a physician.

Ingestion If swallowed, dilute by drinking water. Recommend quantities up to 30 mL (~1 oz.) in children and 250 mL (~9 oz.) in adults. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do NOT induce vomiting. Consult a physician.

Most important symptoms/effects, acute and delayed Direct contact: Can cause irritation of the eyes and skin. Vapors and mists: Can cause irritation of the respiratory tract. Acute overexposures: Can cause bronchitis and central nervous system effects. See Section 11 of the SDS for additional information on health hazards.

Medical conditions aggravated by exposure Asthma, chronic lung disease, and skin rashes.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically.

General information No specific first aid measures noted.

5. Fire-fighting measures

Suitable extinguishing media Dry chemical, foam, carbon dioxide, water fog. Use water spray to minimize vapors. Use water spray to cool exposed containers. Move undamaged containers away from heat or flame, if possible.

Unsuitable extinguishing media Heavy streams of water, when directed into burning liquid, will cause frothing and spread of burning material.

Specific hazards arising from the chemical None known.

Hazardous combustion products Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Special protective equipment and precautions for firefighters Firefighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

Fire fighting equipment/instructions Use standard fire fighting procedures and consider the hazards of other involved materials.

Explosion data

Sensitivity to mechanical impact Not applicable.

Sensitivity to static discharge Product as shipped: Not sensitive.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Use personal protection recommended in Section 8 of the SDS.

Personal precautions, protective equipment and emergency procedures

For emergency responders Use personal protection recommended in Section 8 of the SDS.

Evacuation procedures None necessary.

Methods and materials for containment and cleaning up Dike ahead of spill. Do not allow this material to drain into sewers/water supplies. Return to containers using shovels, buckets or brooms. Notify spill coordinator.

7. Handling and storage

Handling Avoid contact with skin and eyes. Avoid generating mists or vapors. Use personal protection recommended in Section 8 of the SDS.

Storage Empty containers may contain residual product. Do not cut or weld on containers.

Keep containers closed when not in use. Store away from heat, sparks, flames, oxidizers, and other incompatible substances.

8. Exposure controls/personal protection

Occupational exposure limits

U.S. - OSHA

Components	Type	Value
*Petroleum derived mixture	TWA	5 mg/m3

US ACGIH Threshold Limit Values: Time Weighted Average (TWA): mg/m3, non-standard units

Components	Type	Value	Form
*Petroleum derived mixture	TWA	5 mg/m3	Inhalable fraction.

Kaiser Warrick

Components	Type	Value
*Petroleum derived mixture	TWA 8 hour	0.5 mg/m3

General Minimize breathing oil vapors and mist. Remove oil contaminated clothing; launder or dry-clean before reuse. Remove oil 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. Oil coating is readily removed from skin with waterless hand cleaners followed by a thorough washing with soap and water.

Appropriate engineering controls If vapors and mists are generated during processing: Use with adequate ventilation to meet the limits listed in Section 8.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear impervious gloves to avoid direct skin contact. The need for personal protective equipment (gloves) should be based upon a hazard assessment and recommendations from health / safety professionals. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Other The need for personal protective equipment should be based upon a hazard assessment and recommendations from health / safety professionals.

Respiratory protection If vapors and mists are generated during processing: Use NIOSH-approved respiratory protection as specified by an Industrial Hygienist or other qualified professional if concentrations exceed the limits listed in Section 8. Suggested respiratory protection: P95.

Thermal hazards None known.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

Control parameters

9. Physical and chemical properties

Form	Semi-solid.
Color	White. Light yellow.
Odor	Mild odor.
Odor threshold	Not available.
pH	Not applicable
Density	0.91 g/cm3 estimated
Melting point/freezing point	Melting range. Fluid at 140ºF (60ºC) / -54.4 °F (-48 °C) estimated
Initial boiling point and boiling range	Not determined
Flash point	450.0 °F (232.2 °C) Cleveland Open Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit – upper (%)	Not available.
Flammability limit – lower (%)	Not available.
Explosive properties	Not available.
Vapor pressure	Not determined
Vapor density	Not determined
Relative density	Not available.
Solubility(ies)	Expected to be low
Partition coefficient (n-octanol/water)	Not available. Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions of use, storage, and transportation.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources.
Incompatible materials	Strong bases. Strong oxidizers (chlorine, perchlorates, permanganates, peroxides, nitric acid, chromates, etc.).
Hazardous decomposition products	Decomposition can generate: carbon monoxide, carbon dioxide, aldehydes and partially oxidized hydrocarbons.

11. Toxicological information

Health effects associated with ingredients

Fatty esters: Generally of low toxicity. Ingestion: Can cause irritation and diarrhea.

Oil: Can cause irritation of skin. Skin contact (prolonged or repeated): Can cause dermatitis.

If the product is heated well above ambient temperatures or machined, oil vapor or mist may be generated. Oil vapor or mist: Can cause irritation of respiratory tract. Acute overexposures: Can cause bronchitis, headache, central nervous system effects (nausea, dizziness and loss of coordination) and drowsiness (narcosis).

Health effects associated with compounds formed during processing

No new/additional compounds are expected to be formed during processing.

Information on likely routes of exposure

Eye contact	Direct contact: Can cause irritation.
Skin contact	Direct contact: Prolonged or repeated skin contact may cause mild irritation.

Inhalation	Vapors or mists generated by mechanical processing or elevated temperatures: Can cause irritation of the respiratory tract. Acute overexposures: Can cause bronchitis, and central nervous system effects (nausea, dizziness and loss of coordination).
Ingestion	Can cause irritation and diarrhea.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact: Can cause irritation of the eyes and skin. Vapors and mists: Can cause irritation of the respiratory tract. Acute overexposures: Can cause bronchitis and central nervous system effects.

Information on toxicological effects

Acute toxicity	Not classified. Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Non-corrosive.
Serious eye damage/eye irritation	Not classified. Based on available data, the classification criteria are not met. Splashes in the eyes may cause redness and irritation.
Respiratory or skin sensitization	Not a skin sensitizer.
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	Not classified. Based on available data, the classification criteria are not met. Mild skin irritation.
Germ cell mutagenicity	Not classified. Based on available data, the classification criteria are not met.
Neurological effects	High vapor/aerosol concentrations (attainable only at elevated temperatures) may cause central nervous system effects such as dizziness, drowsiness or headaches.
Pre-existing conditions aggravated by exposure	Asthma, chronic lung disease, and skin rashes.
Carcinogenicity	Contains no ingredient listed as a carcinogen

IARC Monographs. Overall Evaluation of Carcinogenicity

*Petroleum derived mixture (CAS *Proprietary)	3 Not classifiable as to carcinogenicity to humans.

US OSHA Hazard Categories (10)

Not regulated.

US OSHA Hazard Categories (9)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicity	Contains no ingredient listed as toxic to reproduction.
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.
Specific target organ toxicity - single exposure	Product as shipped: Not classified. Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Not classified. Based on available data, the classification criteria are not met.
Aspiration hazard	Due to the viscosity, this product does not present an aspiration hazard.
Chronic effects	Not hazardous under normal conditions of use.

12. Ecological information

Ecotoxicity	No ecotoxicity data was found for this product's components.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
Mobility in soil	No data available.
Mobility in general	Not available.
Other adverse effects	None known.

13. Disposal considerations

Disposal instructions	Reuse or recycle material whenever possible. If reuse or recycling is not possible, disposal must be made according to local or governmental regulations.

Waste codes	RCRA Status: Not federally regulated in the U.S. if disposed of "as is." Used product may be regulated as "used oil" under 40 CFR 279 or state equivalent in the U.S. RCRA waste codes other than described here may apply depending on use of the product. Status must be determined at the point of waste generation. Refer to 40 CFR 261 or state equivalent in the U.S.
Waste from residues / unused products	If reuse or recycling is not possible, disposal must be made according to local or governmental regulations.
Contaminated packaging	Dispose of in accordance with local regulations.

14. Transport information

General Shipping Information

Basic Shipping Information

ID number	-
Proper shipping name	Not regulated
Hazard class	-
Packing group	-

General Shipping Notes

- When "Not regulated", enter the proper freight classification, SDS Number and Product Name onto the shipping paperwork.

Disclaimer

This section provides basic classification information and, where relevant, information with respect to specific modal regulations, environmental hazards and special precautions. Otherwise, it is presumed that the information is not available/not relevant

15. Regulatory information

US federal regulations In reference to Title VI of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US OSHA Hazard Categories (9)

Not regulated.

US OSHA Hazard Categories (10)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

US state regulations

US. California Proposition 65

Not Listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A 'Yes' indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A 'No' indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

SDS Status Origination Date: December 9, 2022.

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.

Other information

- Guide to Occupational Exposure Values 2012, Compiled by the American Conference of Governmental Industrial Hygienists (ACGIH).
- NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, September 2005.

Key/Legend:

ACGIH	American Conference of Governmental Industrial Hygienists
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstract Services
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CPR	Cardio-pulmonary Resusitation
DOT	Department of Transportation
DSL	Domestic Substances List (Canada)
EC	Effective Concentration
ED	Effective Dose
EINECS	European Inventory of Existing Commercial Chemical Substances
ENCS	Japan - Existing and New Chemical Substances
EWC	European Waste Catalogue
EPA	Environmental Protective Agency
IARC	International Agency for Research on Cancer
LC	Lethal Concentration
LD	Lethal Dose
MAK	Maximum Workplace Concentration (Germany) "maximale Arbeitsplatz-Konzentration"
NDSL	Non-Domestic Substances List (Canada)
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PIN	Product Identification Number
PMCC	Pensky Marten Closed Cup
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
SIMDUT	Système d'Information sur les Matières Dangereuses Utilisées au Travail
STEL	Short Term Exposure Limit
TCLP	Toxic Chemicals Leachate Program
TDG	Transportation of Dangerous Goods
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System

m meter, cm centimeter, mm millimeter, in inch,
g gram, kg kilogram, lb pound, µg microgram,
ppm parts per million, ft feet

*** End of SDS***

Precautionary statement

Prevention

Wear protective gloves. Wash thoroughly after handling.

Response

Not applicable.

Storage

Store away from incompatible materials. Keep away from heat, sparks and open flame - No smoking.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Not required.

Supplemental information

The mixture does not meet the criteria for classification.
Vapors and mists: Can cause irritation of the respiratory tract. Direct contact: Can cause irritation of the eyes and skin. Acute overexposure: Can cause bronchitis and central nervous system effects.

FIRE FIGHTING MEASURES:
Material will burn if ignited. Use water spray to minimize vapors. Use water spray to cool exposed containers. Move undamaged containers away from heat or flame, if possible.

IN CASE OF SPILL:
Dike ahead of spill. Do not allow this material to drain into sewers/water supplies. Return to containers using shovels, buckets or brooms. Notify spill coordinator. Wear appropriate personal protective equipment.