



SAFETY DATA SHEET

Prepared in accordance with OSHA 29 CFR 1910.1200

Revision Date: 9/29/2014 SDS No.: ND1042 Version: 3.2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: 9070 Aluminum Anti-seize Compound

Synonyms: 907,907A Anti-seize

Product Number: 907

Relevant Identified Uses of the substance and uses advised again

Identified Uses: Anti-seize/anti-gall coating for threaded fasteners and sliding applications

Uses advised against: NA

Supplier:

ND Industries, Inc. 1893 Barrett Road Troy, Michigan 48084 Tel: (248) 288-0000 Fax: 248) 288-0022

E-mail: info@ndindustries.com Website: www.ndindustries.com

Emergency Telephone Numbers:

Medical Emergency: United States 1-800-222-1222

Transportation Emergency: United States 1-800-424-9300

International +1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance 29 CFR 1910.1200 (OSHA HCS)

Irritant, Skin (Category 2)
Irritant, Eye (Category 2B)

OSHA / GHS Label Elements, including precautionary statements

Pictograms:

(!)

Signal word: Warning

Hazard Statement(s)

Causes skin irritation Causes eye irritation

Precautionary Statement(s)

Prevention:

Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves, clothing, eye protection or face protection.

Response:

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.

IF ON SKIN: Wash with plenty of soap and water.

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

Take off contaminated clothing and wash before reuse.

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Storage:

Store in a closed container.

Disposal:

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	EINECS Number	Weight %	EU Classification*
Petroleum Oil	64741-96-4	265-097-6	60-100	Not Classified
Proprietary blend	1314-13-2/ 13463-67-7/ 1317-65-3/ 14807-96-6/ 7782-42-5/ 471-34-1	NA	10-30	Not Classified
Metallic Powders	7429-90-5	231-072-3	10-20	Pyr. Sol. 1 Water-react. 2

^{*}EU Classification is for pure concentrations of the individual materials only, and represents classification under EU regulations. It does not represent the mixture itself.

4. FIRST AID MEASURES

Skin Contact: Remove contaminated clothing. Flush affected area with soap and plenty of

water for at least 15 minutes. If irritation develops or persists, seek medical

attention.

Eye Contact: Do Not Rub Eyes. Flush eyes with warm water for at least 20 minutes. Hold

eyelids apart to ensure complete irrigation of the eyes. Remove contact

lenses. If irritation develops or persists, seek medical attention

Inhalation: IF air way is blocked, remove blockage. If breathing is difficult provide

oxygen. If not breathing, immediately begin rescue breathing. If heart has

stopped, provide cardiopulmonary resuscitation (CPR).

Ingestion: Do not induce vomiting. If vomiting occurs spontaneously, place head lower

than knees, or, if unconscious, in rescue position. Seek immediate medical

attention.

Notes to Physician: Maintain adequate ventilation and oxygenation of patient.

5. FIRE AND IGNITION INFORMATION

Flash Point 430°F (221°C)

Explosion Limits in Air – Upper

(%):

Explosion Limits in Air - Lower

(%): 0.9%

OSHA Flammability

Classification:
Auto-ignition Temperature:

Noncombustible
>500°F (>260°C)

Extinguishing Media: Dry chemical, carbon dioxide, foam

7%

Special Protective Equipment

for Firefighters: Fire fighters should wear full turn-out gear, including a NIOSH approved self-

contained breathing apparatus operated in pressure-demand or other positive

pressure when fighting fires.

Specific Hazards: Not established for the product itself.

Hazardous Decomposition

and/or Combustion Products: Oxides of carbon, smoke, fumes, unburned hydrocarbons, aldehydes, and

cyanides.

Risk of Dust Explosion: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Only trained personnel should clean a spill. Evacuate all non-essential

personnel. Ventilate spill area. Avoid breathing vapors, eye and skin contact.

Wear appropriate personal protective equipment.

Methods for Cleaning Up: Evacuate non-emergency personnel. Isolate the area and prevent access.

Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Transfer to a waste container. Scrape-up/off dried materials. The waste can then be dispose of in accordance with all applicable local, state, and federal regulations. Ensure

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adequate ventilation.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Environmental Precautions: Do not allow spilled material onto or into soil, drains, sewer, rivers or other

water courses.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid skin and eye contact. Wear appropriate personal protective

> equipment. Avoid breathing vapors. Work in a well-ventilated area. Do not ingest. Safety showers and eyewash stations should be available for use in the immediate work area. Wash hands after using this product, and before

eating, drinking smoking or using the lavatory.

Conditions for Safe Storage: Keep containers tightly closed. Store in well ventilated, cool, dry location,

away from direct sunlight. Store in approved containers. Do not allow product

to freeze.

Incompatible Materials: Oxidizing materials, acids, bases, amines

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Product Name: 9070 Aluminum Anti-seize

Exposure Limits for the Product itself have not been established.

Exposure limits for those components with limits are stated below.

Aluminum, CAS RN: 7429-90-5 OSHA – PEL: 15 mg/m³ TWA– Total dust

OSHA – PEL: 5 mg/m³ TWA– Respirable fraction

ACGIH - TLV: 1 mg/m3 TWA- Respirable OSHA - PEL: 15 mg/m3 TWA- Total dust

Calcium carbonate, CAS RN:

1317-65-3/471-34-1 OSHA - PEL: 5 mg/m3 TWA- Respirable fraction

Graphite (natural), CAS RN: OSHA – PEL: 15mppcf (containing < 1% Quartz)

7782-42-5 ACGIH - TLV: 2 mg/m3 TWA- Respirable Talc (containing no asbestos OSHA – PEL: 20 mppcf (containing < 1% Quartz)

fibers), CAS RN: 14807-96-6 ACGIH - TLV: 2 mg/m3 TWA- Respirable Titanium dioxide, CAS RN: OSHA – PEL: 15 mg/m³ TWA– Total dust ACGIH - TLV: 10 mg/m3 TWA- Respirable 13463-67

OSHA – PEL: 15 mg/m³ TWA– Total dust Zinc oxide, CAS RN: 1314-13-2 OSHA – PEL: 5 mg/m³ TWA– Respirable fraction ACGIH - TLV: 2 mg/m3 TWA- Respirable

ACGIH -TLV: 10 mg/m3 CEILING- Respirable

ENGINEERING CONTROLS: Use only with adequate ventilation. Ventilation must be adequate to maintain

the ambient workplace atmosphere below the exposure limit(s) stated above.

The use of both general dilution and local exhaust ventilation is

recommended to control airborne exposures to mist, vapor, or spray. Do not

use in a confined area or areas with little or no air movement.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: When atmospheric levels exceed the exposure guidelines, use a NIOSH

> approved air-purifying respirator. Use a respirator that has been selected by an industrial hygienist or other technically qualified person for the specific

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work conditions. If respirators are used, OSHA requires compliance with its respirator program. For situations where atmospheric levels may exceed the level for which an air-purifying respirator is effective, use positive-pressure air-supplying respiratory (air-line or self-contained breathing apparatus). Use gloves chemically resistant to this material. Select and use gloves and/or

protective clothing to prevent skin contact based on the results of an

exposure assessment.

Eye Protection: Wear safety glasses with side shields. Chemical safety goggles and face

shield should be used if splash hazard exists. Eyewash fountain should be

located in the immediate work area.

Skin and Body Protection: Wear chemical resistant clothing suitable to the job. Select and use gloves

and/or protective clothing to prevent skin contact based on the results of an

exposure assessment.

Other: A hazard assessment should be performed before using this material to

determine the appropriate personal protective equipment for the task. Safety shower and eyewash stations should be available in the immediate work area. Do not smoke, eat or drink while using this material. Wash hands after using this material, before eating, drinking, smoking or using the lavatory.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Silver/Gray Paste Odor: Silver/Gray Paste Grease/Hydrocarbon

pH Neutral

Odor Threshold: Not established for the product itself.

Vapor Pressure: <0.01 kPa

Vapor Density: >5

Flash Point 430°F (221°C)

Explosion Limits in Air - Upper

(%): 7%

Explosion Limits in Air – Lower

(%): 0.9%

OSHA Flammability

Hand Protection:

Classification: Noncombustible Auto-ignition Temperature: >500°F (>260°C)

Decomposition Temperature:

Not established for the product itself.

Initial Boiling Point /Range: <600°F (<316°C)

Melting Point: <500°F (232°C)

Freezing Point: Not established for the product itself.

Water Solubility: Not soluble Specific Gravity: 1.13

Relative Density: Not established for the product itself. % Volatile (by Volume): Not established for the product itself.

Evaporation Rate: <0.01

Partition coefficient: n-

octanol/water Not established for the product itself.

Viscosity: 120000 – 175000 cP

10. STABILITY AND REACTIVITY

Stability: Stable under recommended conditions. See section 7.

Hazardous Polymerization: Will not occur.

Mechanical Sensitivity (shock): Not applicable.

Conditions to Avoid: Powerful sources of ignition and extreme temperatures

Hazardous Decomposition

and/or Combustion Products: See section 5.

Static Discharge Effects: Not established for the product itself.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Skin Contact, Eye Contact

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Signs and Symptoms of

Exposure:

Contact with the skin can be indicated by redness and/or irritation at the sight of exposure. Contact with the eye(s) is indicated by irritation, redness and watering of

the eye(s).

Toxicological data has not been established for the product itself.

Components of this material that have associated toxicological data is provided below.

Acute Toxicity

Oral LD50: No data available on the product itself. Inhalation LC50: No data available on the product itself. Dermal LC50: No data available on the product itself.

Serious Eye Damage/Eye

Irritation: No data available on the product itself.

Skin Corrosion/ Irritation: No data available on the product itself.

Respiratory or Skin

Sensitization: No data available on the product itself.

Germ Cell Mutagenicity: No data available on the product itself.

Carcinogenicity

ACGIH: No component of this product is present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by ACGIH.

IARC: No component of this product is present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product is present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product is present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity: No data available on the product itself.

Teratogenicity: No data available on the product itself.

Specific Target Organ Toxicity – Single

Exposure: No data available on the product itself.

Specific Target Organ Toxicity – Repeated

Exposure: No data available on the product itself.

Aspiration Hazard: No data available on the product itself.

Synergistic Materials: No data available on the product itself.

12. ECOLOGICAL INFORMATION

Information given is based on data on the components and the toxicology of similar products.

Aquatic Toxicity:

Do not allow spilled material onto or into soil, drains, sewer, rivers or other

water courses.

Environmental Fate:

Mobility: No data available on the product itself. Bioaccumulation: No data available on the product itself.

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Persistence/Degradability:

No data available on the product itself.

Distribution to Environmental Compartments:

No data available on the product itself.

13. DISPOSAL CONSIDERATIONS

Disposal:

Disposal of this product must be in accordance with all applicable local, state, and federal regulatory requirements. When disposing of waste materials contact and offer to only licensed professional waste disposal services. Do not dispose of used, unused, or wastes into sanitary sewage or storm water drains or systems.

RCRA Classification (40 CFR 261):

Dispose of in accordance with all applicable local, state and federal regulatory requirements.

Unused and Uncontaminated Product:

Dispose of in accordance with all applicable local, state, and federal regulatory requirements.

Disclaimer:

Information in this section pertains to the product as shipped in its intended composition as described in Section 2 of this MSDS. Contamination or processing may change waste characteristics and requirements. Regulations may also apply to empty containers, liners or rinsate. State/provincial and local regulations may be different from federal regulations.

14. TRANSPORTATION INFORMATION

DOT: Not Regulated

UN Identification Number: NA
Proper Shipping Name: NA
Hazard Class: NA
Packing Group: NA
Marine Pollutant: NA
Poison Inhalation Hazard: NA

IATA: Not Regulated

UN Identification Number: NA
Proper Shipping Name: NA
Hazard Class: NA
Packing Group: NA

IMDG: Not Regulated

UN Identification Number: NA
Proper Shipping Name: NA
Hazard Class: NA
Packing Group: NA
Marine Pollutant: NA

15. REGULATORY INFORMATION

Hazard Classification

OSHA Classification: Hazardous

Irritant, Skin (Category 2) Irritant, Eye (Category 2B)

International Inventories

All components of this product are listed on or exempt from the following inventories:

Yes - Australian Inventory of Chemical Substances (AICS)

Yes - Domestic Substances List (DSL)

Yes - Chinese Inventory

Yes - European Inventory of Existing Commercial Substances (EINECS)

Yes - Japanese Existing and New Chemical Substances (ENCS)

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Yes - Korean Existing Chemicals List (KECL)

Yes - New Zealand Hazardous Substances and New Organisms Act (HSNO)
Yes - Philippine Inventory of Chemicals and Chemical Substances (PICCS)
Yes - United States Toxic Substances Control Act (TSCA) Inventory

- Offiled States Toxic Substances Control Act (TSCA) Inventory

U.S. Federal Regulations

TSCA 12(b) Export Notification: None

Clean Air Act amendments of 1990 (CAA, Section 11240: CFR 82): No

Component	CAS#	Amount
NΑ	NA	NA

Clean Water Act (CWA, 40 CFR 116): No Priority Pollutants

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, 40 CFR 302): Yes

Component	CAS#	RQ
NA	NA	NA

Superfund Amendments and Reauthorization Act, Title III (SARA):

SARA Section 302 (40 CFR 355) Extremely Hazardous Substances: No

Component	CAS#	Amount
NA	NA	NA

SARA Section 311/312 (40 CFR 370) Hazard Category: Acute

SARA Section 313 (40 CFR 372) Toxics Release Inventory: Yes

Component	CAS#	Amount
NA	NA	NA

U.S. State Regulations

California Proposition 65: This product does not contain chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

Component	CAS#	Amount
NA	NA	NA

16. OTHER INFORMATION

HMIS Rating

HMIS Index: *- chronic, 0 - Minimal, 1 - slight, 2- moderate, 3 - serious, 4 - severe

Health: 1 Flammability: 1 Physical Hazard: 0

Additional Contacts:

Prepared by: ND Industries, Inc. – Safety, Health and Environmental Affaires

Version: 3.2
Revision Date: 9/29/2014
Previous Revision Date: None

Reasons for Revision: Creation of SDS

<u>Glossary</u>

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service Number

Ceiling: Absolute exposure limit that should not be exceeded at any time

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

GHS: Globally Harmonized System

HCS U.S. Hazard Communications Standard IARC: International Agency for Research on Cancer

A "Yes" indicates this product complies 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).

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IATA: International Air Transportation Association
IDLH: Immediately Dangerous to Life and Health
IMDG: International Maritime Dangerous Goods Code

DOT: U.S. Department of Transportation

OSHA: Occupational Safety and Health Administration

NTP: U.S. National Toxicology Program

PEL: Permissible Exposure Limit - An airborne concentration in which nearly all workers may be repeatedly

exposed ... without adverse health effects. Establish by US OSHA

ppm: Parts per million

RCRA: Resource Conservation and Recovery Act SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit - One time exposure for a duration of 15 minutes, that cannot be repeated more

than 4 times per day

TSCA: Toxic Substances Control Act

TLV: Threshold Limit Value - An airborne concentration in which nearly all workers may be repeatedly exposed ...

without adverse health effects. Established by US ACGIH

TWA: Time Weighted Average - Average exposure on the basis of a 8h/day, 40h/week work schedule

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