

## 1. Identification of the substance/preparation and of the company/undertaking

**Product Name** AN-LUBE FAS-200

**UN/ID No.** 433

**Synonyms**

### Recommended use of the chemical and restrictions on use

**Recommended Use** Specialty Synthetic Lubricant

**Uses advised against** No information available

### Manufacturer Address

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

### Emergency telephone number

800-424-9300

## 2. Hazards identification

### Classification

#### OSHA Regulatory Status

<b>Acute Toxicity-Oral</b>	Category 4
<b>Skin Corrosion/Irritation</b>	Category 1 Sub-category A
<b>Serious Eye Damage/Irritation</b>	Category 1
<b>Sensitization-Skin Sub-category A</b>	Category 1
<b>Corrosive to Metals</b>	Category 1

### Label Elements

Signal word: **Danger**

#### **Hazard Statements**

Harmful if swallowed  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
May be corrosive to metals.

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing must not be allowed out of the workplace. Keep only in original container.

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician. Specific treatment (see Section 4 on the SDS).  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.  
IF INHALED: Remove victim to fresh air and keep comfortable for breathing.  
Absorb spillage to prevent material damage.

#### **Precautionary Statements - Storage**

Store locked up. Store in a corrosive resistant container.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

#### **Hazards not otherwise classified (HNOC)**

#### **Other Information**

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.



## 3. Composition/information on ingredients

Chemical Name	CAS Number	% by Weight
Potassium hydroxide	1310-58-3	4
TSRN3549		<5
TSRN5905		<15

Chemical Name	CAS Number	% by Weight
TSRN9292	68439-57-6	<5
TSRN9300		<10
TSRN1390		<5
TSRN1841		<5
TSRN4075		<10
TSRN8230		<10

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

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## 4. First aid measures

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### Eye contact

Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete rinsing. Get immediate medical attention.

### Skin Contact

Skin Contact Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention. Remove contaminated clothing and wash before reuse.

### Inhalation

Inhalation Remove victim to fresh air. If breathing difficulty occurs or persists, get medical attention.

### Ingestion

Ingestion Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person.

### Self-protection of the first aider

## Most important symptoms and effects, both acute and delayed

### Symptoms

Corrosive. Causes irritation (possibly severe), burns to the eyes. May cause permanent eye damage. Causes irritation (possibly severe), burns to the skin. Causes irritation (possibly severe), burns, pulmonary edema to the respiratory tract. Causes irritation (possibly severe), burns, nausea, vomiting to the gastrointestinal tract. The severity of effects depend on concentration and how soon after exposure the area is washed.

## Indication of any immediate medical attention and special treatment needed

### Note to physicians

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## 5. Fire-fighting measures

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### Suitable extinguishing media

Carbon Dioxide, Dry Chemical, Foam, Water Fog

### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this may spread the fire.

### Specific hazards arising from the chemical

None known

### Hazardous combustion products

Carbon oxides, nitrogen oxides. May react with chemically reactive metals such as aluminum, zinc, magnesium, copper, etc. to release hydrogen gas which can form explosive mixtures in air.

## Explosion Data

### Sensitivity to mechanical impact

### Sensitivity to static discharge

## Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to cool fire exposed containers. Move containers from fire area if you can do it without risk.

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## 6. Accidental release measures

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### Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Evacuate nonessential personnel. Avoid contact with eyes, skin and clothing. Ventilate area. Wear appropriate personal protection equipment. Remove all ignition sources.

**Environmental precautions**

Environmental precautions See Section 12 for additional ecological information.

**Methods for containment**

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Remove free liquid. Contain spill and keep from entering waterways or sewers.

**Methods for cleaning up**

Recover as much material as possible into containers for disposal or reuse. Remaining material may be diluted with water and neutralized. Flush spill area with water.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wear appropriate protective clothing/equipment. Do not breathe mist. Use with adequate ventilation. Do not ingest.

**Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep container tightly closed. Keep in a dry place. Keep away from heat/sources of ignition. Do not store in direct sunlight.

**Incompatible materials**

Reacts with copper, aluminum, zinc and their alloys. Avoid contact with acids

**8. Exposure controls/personal protection****Control parameters****Exposure Guideline**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m3	(vacated) Ceiling: 2 mg/m3	Ceiling: 2 mg/m3
TSRN4075	25 ppm		

**Appropriate engineering controls**

Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear protective splash proof safety goggles. Additional full face protection is recommended if splashing is a possibility. Avoid contact with eyes.

**Skin and body protection**

Wear protective gloves and protective clothing, as needed.

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations**

Wash contaminated clothing before reuse. When using do not eat, drink or smoke. Wash thoroughly after handling.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state	Liquid
Color	Amber
Odor	Ammoniacal
Odor threshold	No information available
pH	13-13.5
Melting point/freezing point	No information available
Boiling point / boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability upper limit in air	No information available

<b>Flammability lower limit in air</b>	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Specific Gravity</b>	1.147-1.167
<b>Water solubility</b>	Soluble in water
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	
<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Dynamic viscosity</b>	No information available

## 10. Stability and reactivity

### Reactivity

No information available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Extremes of temperature and direct sunlight.

### Incompatible materials

Reacts with copper, aluminum, zinc and their alloys. Avoid contact with acids, strong oxidizing agents.

### Hazardous Decomposition Products

Thermal decomposition can lead to release of toxic/corrosive fumes of potassium oxide. Oxides of carbon and nitrogen.

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	May be harmful if inhaled.
<b>Eye contact</b>	Risk of serious damage to eyes. Avoid contact with eyes.
<b>Skin Contact</b>	Avoid contact with skin. Contact causes severe skin irritation and possible burns. May cause an allergic skin reactions.
<b>Ingestion</b>	May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium hydroxide 1310-58-3	284 mg/kg ( Rat )		
TSRN3549	Rat LD50 >2000 mg/kg	Rabbit LD50 7630 mg/kg	
TSRN9292 68439-57-6	LD50 Rat 2079 - 2340 mg/kg	LD50 Rabbit 6300 - 160000 mg/kg	LD50 Rat 52 - 206 mg/l
TSRN9300	Rat, 1,780 < 2,000 mg/kg (Estimated)	Rabbit, > 5,000 mg/kg (Estimated)	
TSRN1390	> 300 - 2,000 mg/kg		
TSRN1841	Acute toxicity estimate: 555.56 mg/kg	Acute toxicity estimate: > 5,000 mg/kg	
TSRN4075	LD50 3700 mg/kg	LD50 7890 mg/kg	LC50 > 0.31 mg/l (Exposure time: 1 h)
TSRN8230	>10,000 mg/kg (rat)	>2,000 mg/kg (rabbit)	

### Information on toxicological effects

**Symptoms** Corrosive. Causes irritation (possibly severe), burns to the eyes. May cause permanent eye damage. Causes irritation (possibly severe), burns to the skin. Causes irritation (possibly severe), burns, pulmonary edema to the respiratory tract. Causes irritation (possibly severe), burns, nausea, vomiting to the gastrointestinal tract. The severity of effects depend on concentration and how soon after exposure the area is washed.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Sensitization</b>	No information available
<b>Germ cell mutagenicity</b>	No information available
<b>Carcinogenicity</b>	No information available

Chemical Name	ACGIH	IARC	NTP	OSHA
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**Reproductive toxicity** No information available

STOT - single exposure No information available  
 STOT - repeated exposure No information available  
 Aspiration hazard No information available

## Numerical measures of toxicity - Product Information

## 12. Ecological information

### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Potassium hydroxide 1310-58-3		LC50 (Gambusia affinis): 80 mg/L 96h static	EC50 (Daphnia magna): 60 mg/L/48 hr (static bioassay at 20.3-20.7 C)
TSRN9292 68439-57-6	EC50 Algae 3.2 - 5.2 mg/l, 72 h	LC50 Danio rerio 3.5 - 5 mg/l, 96 h	EC50 Daphnia 4.53 mg/l, 48 h
TSRN9300	EC50, Pseudokirchneriella subcapitata (green algae), static test, 72 Hour, Growth rate inhibition, > 100 mg/l, OECD Test Guideline 201 or Equivalent	Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 > 100 mg/L in the most sensitive species tested). LC50, Lepomis macrochirus (Bluegill sunfish), static test, 96 Hour, 1,592 mg/l, Other guidelines	EC50, Daphnia magna (Water flea), 24 Hour, 61 O - 1,033 mg/l, OECD Test Guideline 202 or Equivalent
TSRN1390	EC10: > 0.001 - 0.01 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae)	LC50: > 0.1 - 1 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)	EC50: > 0.1 - 1 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
TSRN1841		LC50: > 1 - 10 mg/l Exposure time: 96 h Species: Fish	EC50: > 10 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
TSRN4075		LC50 1 10700 mg/l, 96 h (Pimephales promelas) EC50 1 2700 - 3700 mg/l, 48 h (Daphnia magna) LC50 2 10000 mg/l, 96 h (Lepomis macrochirus [static])	
TSRN8230	72 hr for EL50 AUC=854.90 mg/l loading rate WAF, NOEL 500 mg/l loading rate WAF	96 hr for LL50 >1000 mg/l loading rate WAF; NOEL 1000 mg/l loading rate WAF	48 hr for LL50 >1000 mg/l loading rate WAF; NOEL 1000 mg/l loading rate WAF

Persistence and degradability No information available  
 Bioaccumulation No information available

Chemical Name	Partition coefficient
Potassium hydroxide 1310-58-3	0.83
TSRN8230	(LogKow) 4.9-7.6 (OECD117)

Other adverse effects No information available

## 13. Disposal considerations

### Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.  
 Contaminated packaging Do not reuse container. Avoid release to the environment.

Chemical Name	California Hazardous Waste Status

## 14. Transport information

DOT DoT regulated  
 UN/ID No. UN1760  
 Proper shipping name Corrosive Liquid, N.O.S.  
 Hazardous ingredients (potassium hydroxide)  
 Hazard class 8  
 Packing group III

## 15. Regulatory information

### US Federal Regulations

#### SARA 311/312 Hazards

Acute Toxicity-Oral  
 Skin Corrosion/Irritation  
 Serious Eye Damage/Irritation  
 Sensitization-Skin Sub-category A  
 Corrosive to Metals

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	Reportable Quantities	Toxic Pollutants	Priority Pollutants	Hazardous Substances
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#### CERCLA

This material, as supplied, does contain a substance regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Potassium hydroxide 1310-58-3	1000 lb	1000 lb	

### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

## 16. OTHER INFORMATION

NFPA Health hazards 3 Flammability 1 Instability 0 Physical and Chemical Properties  
 HMIS Health hazards 3 Flammability 1 Physical hazards 0 Personal protection X  
 Prepared By lmt  
 Issue Date 2021-03-02  
 Revision Date 2021-06-22  
 Revision Note New product

#### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**