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Safety Data Sheet

Issue Date 01-05-2015

Revision date 01-05-2015

Revision Number 2

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product name Aldraw J-2-E

Other means of identification Recommended use of the chemical and restrictions on use

Material Uses Metalforming Compound.
Uses advised against Verify Applications

Details of the supplier of the safety data sheet

Manufacturer

Hangsterfer's Laboratories, Inc., 175 Ogden Road, Mantua, NJ 08051; Phone 856-468-0216, Fax 856-468-0200, Website: www.hangsterfers.com

Emergency telephone number

Emergency telephone number Chemtrec 1-800-424-9300 in US
Canutec 1-613-996-6666 in Canada
For international assistance, dial Chemtrec US number 1-703-527-3887

2. Hazards Identification

Prepared according to OSHA Hazard Communication Standard (29 CFR 1910.1200) and ANSI MSDS Standard (Z400.1).
Complies with Canadian Workplace Hazardous Materials Information System (WHMIS) standards.

Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label Elements

EMERGENCY OVERVIEW

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Red Physical state Liquid Odor Mild

Hazards not otherwise classified (HNOC) Other Information

ectNknfowoef• n

3. Composition/information on Ingredients

Chemical Family Straight Oil Type.

4. First aid measures

First aid measures

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a physician if necessary.

Skin contact Wash skin with soap and water. Consult a physician if necessary.

Inhalation Remove to fresh air. Consult a physician if necessary.

Ingestion Do NOT induce vomiting. Drink plenty of water. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Water spray or fog is preferred; if water not available use dry chemical, CO2 or regular foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

May be ignited by heat, sparks or flames. Keep product and empty container away from heat and sources of ignition.

Hazardous combustion products Carbon oxides. HCl.

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Remove all sources of ignition. Avoid contact with skin and eyes. Wear boots, gloves and protective suit when handling large spills. Ensure adequate ventilation.

Other Information Report spills as required to the appropriate authorities.

Environmental precautions

Environmental precautions No unusual hazard.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.

Methods for Clean-Up Take up mechanically, placing in appropriate containers for disposal.

7. Handling and Storage

Precautions for safe handling

Handling Avoid contact with eyes. Keep container in a well-ventilated place. Do not puncture, crush or incinerate containers.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep away from direct sunlight. Keep away from heat and sources of ignition.

Incompatible materials Acids and oxidizing agents.

8. Exposure Controls/Personal Protection

Control parameters

Exposure guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

- Eye/face protection** Safety glasses with side-shields.
- Skin and Body Protection** Use protective gloves and clothing if contact with product is likely.
- Respiratory protection** If personal exposure levels cannot be maintained below accepted exposure limits, NIOSH/MSHA approved respiratory protection should be worn.
- General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

| | | | |
|---------------------------------------|--------------------------------|--|--------------------------|
| Physical state | Liquid | Odor | Mild |
| Appearance | Red | Odor threshold | No information available |
| Color | Red | | |
| <u>Property</u> | <u>Values</u> | <u>MRheom•tdkasr</u> | |
| pH | 7.3 | May begin to solidify at -15 °C / 5 °F | |
| Melting point / freezing point | - | | |
| Boiling point | 248 °C / 478 °F Flash | | |
| point | Not flammable | | |
| Evaporation rate | No information available | | |
| Flammability (solid, gas) | No information available | | |
| Flammability Limit in Air | No unusual hazard Lower | | |
| Upper flammability limit | No unusual hazard | | |
| flammability limit | | | |
| Vapor pressure | <0.01 mmHg @ 20 °C | | |
| Vapor density | > 5 | | |
| Specific gravity | 1.25 | | |
| Water solubility | 80% Soluble. | | |
| Solubility in other solvents | No information available | | |
| Partition coefficient | No information available | | |

| | |
|----------------------------------|--------------------------------------|
| Autoignition temperature | No unusual hazard |
| Decomposition temperature | No unusual hazard |
| Kinematic viscosity | 4060 cSt @ 40°C 18800 SUS @ 100°F |
| Dynamic viscosity | No information available |
| VOC Content, % Vol | 0.5; ASTM E-1868-10 |

10. Stability and Reactivity

Reactivity

No unusual hazard

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal use conditions.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Acids and oxidizing agents.

Hazardous decomposition products

Carbon oxides. HCl.

11. Toxicological Information

Information on likely routes of exposure

| | |
|----------------------------|--|
| Product Information | Product does not present an acute toxicity hazard based on known information |
| Inhalation | No unusual hazard. |
| Eye contact | No unusual hazard. |
| Skin contact | No unusual hazard. |
| Ingestion | No unusual hazard. |

Information on toxicological effects

Symptoms None known.

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

Skin corrosion/irritation OECD 404 - Non-irritating and non-corrosive (rabbit).
Serious eye damage/eye irritation No unusual hazard.
Sensitization No known effect. **Mutagenic Effects**
No known effect. **Carcinogenicity** No known effect.
Reproductive effects No known effect.
STOT - single exposure No information available. **STOT - repeated exposure** No information available.
Chronic toxicity No known effect.
Aspiration Hazard No unusual hazard.

Numerical measures of toxicity - Product Information

Oral LD50 > 5000 mg/kg (rat)

12. Ecological Information

Ecotoxicity

No unusual hazard

Persistence/Degradability

No unusual hazard

Bioaccumulation/ Accumulation

No unusual hazard.

Other adverse effects

None known

13. Disposal Considerations

Waste treatment methods

Waste Disposal Method Dispose of in accordance with federal, state and local regulations.
Contaminated packaging Do not reuse empty containers.

14. Transport Information

DOT

UN-No Not regulated

| | |
|----------------------|---------------|
| Proper shipping name | Not regulated |
| Hazard Class | Not regulated |
| Packing group | Not regulated |
| Labels | Not regulated |
| Description | Not regulated |

TDG

| | |
|----------------------|---------------|
| UN-No | Not regulated |
| Proper shipping name | Not regulated |
| Hazard Class | Not regulated |
| Packing group | Not regulated |
| Labels | Not regulated |
| Description | Not regulated |

IMDG/IMO

| | |
|----------------------|----------------|
| UN-No | Not regulated |
| Proper shipping name | Not applicable |
| Hazard Class | Not regulated |
| Packing group | Not regulated |
| Labels | Not regulated |
| Description | Not regulated |

ADR/RID

| | |
|----------------------|----------------|
| UN-No | Not regulated |
| Proper shipping name | Not applicable |
| Hazard Class | Not regulated |
| Packing group | Not regulated |
| ADR/RID-Labels | Not regulated |
| Description | Not regulated |

IATA

| | |
|----------------------|----------------|
| UN-No | Not regulated |
| Proper shipping name | Not applicable |
| Hazard Class | Not regulated |
| Labels | Not regulated |
| Packing group | Not regulated |
| Description | Not regulated |

PG* : Packing group

15. Regulatory information

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

| | |
|----------------------------|---------------------------|
| Acute health hazard | No |
| Chronic Health Hazard | No |
| Fire hazard | No Sudden |
| release of pressure hazard | No Reactive Hazard |
| No | |

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)

CERCLA

This material, as supplied, does not contain any substances 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). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. Regulations & Inventories

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

No regulatory requirements found. All components of this product are either listed on the TSCA inventory or are exempt from listing requirements.

U.S. EPA Label information

EPA Pesticide registration number Not applicable

16. Other information

| | | | | |
|--------------------|-----------------|-----------------------|---------------------------|------------------------------|
| <u>NFPA</u> | HEALTH 1 | Flammability 1 | Instability 0 | Physical hazard - |
| <u>HMIS</u> | HEALTH 1 | Flammability 1 | Physical Hazards 0 | Personal Protection - |

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| Issue Date | 01-05-2015 |
| Revision date | 01-05-2015 |
| Revision Summary | |

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2015

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS