



Safety Data Sheet

Heavy Duty Nozzle Dip Gel

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

- 1.1 Product Identifier**
Trade Name Heavy Duty Nozzle Dip Gel
Product Number 007094, 007095
- 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against**
Product Use: Welding Process Aid
- 1.3 Details of the Supplier of the Safety Data Sheet**
Manufacturer: Weld-Aid Products
 14650 Dequindre
 Detroit , Michigan
Information Phone Number: +1 (313) 883-6977
 +1 (313) 883-4930
E-mail info@weldaid.com
- 1.4 Emergency Telephone Number**
Emergency Spill Information +1 (800) 255-3924

SDS Date of Preparation: November 19, 2014

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Physical:	Health:	Environmental
None	Skin Irritation Category 2 Eye Irritation Category 2A Specific Target Organ Toxicity – Repeat Exposure Category 2 Carcinogenicity Category 2	None

EU Classification (67/548/EEC): Not classified as dangerous

2.2 Label Elements

WARNING! Contains Diethylanolamine, Cocamide Diethanolamine



Hazard Phrases

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H373	May cause damage to liver, kidneys and blood through prolonged or repeated exposure by ingestion.
H351	Suspected of causing cancer by ingestion.

Precautionary Phrases

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe mist, vapors or spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves and eye protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical attention

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P362 + P364	Take off contaminated clothing and wash it before reuse.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P308 + P313	IF exposed or concerned: Get medical attention.
P405	Store locked up.
P501	Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical Name	CAS# /	EINECS#	EU Classification (67/548/EEC)	GHS Classification Regulation (EC) No 1272/2008	%
Cocamide Diethanolamine	68603-42-9	Proprietary	Xi R36/38	Eye Irritation Category 2 (H319) Skin Irritation Category 2 (H315) Carcinogen Category 2 (H351)	5-10%
Oleic Acid	112-80-1	204-007-1	Xi R36	Eye Irritation Category 2 (H319)	1-5%
Diethanolamine	111-42-2	203-868-0	Xi, Xn R22, R38, R41, R48/22	Acute Toxicity Category 4 (H302) Skin Irritation Category 2 (H315), Eye Damage Category 1 (H318), Specific Target Organ Toxicity – Repeat Exposure Category 2 (H373) Carcinogenicity Category 2 (H351)	1-2

See Section 16 for further information on EU and GHS Classification.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye: Rinse thoroughly with water for several minutes, holding the eye lids open to be sure the material is washed out. Get medical attention if irritation persists.

Skin: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

Inhalation: Move to fresh air. Seek medical attention if irritation or other symptoms persist.

Ingestion: Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

4.2 Most Important symptoms and effects, both acute and delayed: Causes eye and skin irritation. Mists may cause upper respiratory irritation. May cause cancer based on animal data. Risk of cancer depends on duration and level of exposure.

4.3 Indication of any immediate medical attention and special treatment needed: None required.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Use water, carbon dioxide, universal foam and dry chemical.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: None known.

Hazardous Decomposition Products: Combustion may produce oxides of carbon and nitrogen.

5.3 Advice for Fire-Fighters:

Firefighters should always wear self-contained breathing apparatus and full protective clothing for fires involving chemicals or in confined spaces. Cool fire exposed containers with water.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions, Protective Equipment and Emergency Procedures:**
Wear appropriate eye protection and gloves.
- 6.2 Environmental Precautions:**
Report spill as required by local and federal regulations.
- 6.3 Methods and Material for Containment and Cleaning Up:**
Contain and collect using an absorbent material and place in an appropriate container for disposal.
- 6.4 Reference to Other Sections:**
Refer to Section 8 for protective equipment and Section 15 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for Safe Handling:**
Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wash thoroughly after handling.
- 7.2 Conditions for Safe Storage, Including any Incompatibilities**
Store in a cool, dry well ventilated area.
- 7.3 Specific end use(s):**
Welding applications.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure Limits
Cocamide Diethanolamine	None Established
Oleic Acid	None Established
Diethanolamine	1 mg/m ³ TWA (skin) ACGIH TLV (inhalable fraction and vapor) 1 mg/m ³ TWA (skin) DFG MAK (inhalable)

Refer to local regulations if exposure limits are not listed above.

8.2 Exposure Controls:

Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Respiratory Protection: None required for normal use. Use an approved respirator with organic vapor cartridges if exposure levels exceed the applicable exposure limits. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Impervious gloves are recommended if needed to avoid prolonged or repeated contact. Suggested materials for protective gloves include: Rubber, Neoprene or Nitrile.

Eye Protection: Chemical safety goggles recommended if splashing is possible. Follow facility requirements.

Other: Impervious clothing as needed to prevent prolonged skin contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Appearance: Amber clear gel.	Vapor Density: Not available
Odor: No appreciable odor.	Specific Gravity: 1.0
Odor Threshold: No data available	Water Solubility: 100%
pH: Not available	Octanol/Water Partition Coefficient: Not available
Melting Point/Freezing Point: Not applicable	Autoignition Temperature: Not available
Boiling Point: Not available	Decomposition Temperature: Not available

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Flash Point: Not flammable	Viscosity: Not available
Evaporation Rate: Not available	Explosion Properties: Not explosive
Flammable Limits: None	Oxidizing Properties: Not oxidizing
Vapor Pressure: Not available	

9.2 Other Information:
None

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:**
Not reactive under normal conditions of use.
- 10.2 Chemical Stability:**
Stable under normal storage and handling conditions.
- 10.3 Possibility of Hazardous Reactions:**
None known.
- 10.4 Conditions to Avoid:**
None known.
- 10.5 Incompatible Materials:**
Avoid contact with oxidizing agents and bases.
- 10.6 Hazardous Decomposition Products:**
Thermal decomposition may produce carbon and nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Information on Toxicological Effects:**
Eye: May cause irritation with redness and tearing. Corneal injury is unlikely.
Skin: May cause skin irritation.
Inhalation: No adverse effects are expected unless the product is aerosolized. Mists may cause mucous membrane and upper respiratory tract irritation.
Ingestion: Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Acute Toxicity Values:

Cocamide Diethanolamine: Oral rat LD50 >5,000 mg/kg; Skin rabbit LD50 >2,000 mg/kg

Oleic Acid: Oral rat LD50 >2000 mg/kg

Diethanolamine: Oral rat LD50 1100 mg/kg

Irritation: Oleic acid has been shown to cause irritation to human eyes. Cocamide diethanolamine is not irritating to rabbit skin, irritating to eyes. Diethanolamine is irritating to rabbit skin and severely irritating to rabbit eyes.

Corrosivity: This is not a corrosive product.

Sensitization: This product is not expected to cause sensitization.

Repeat Dose Toxicity: Diethanolamine has been shown to cause damage to the blood, kidneys and liver.

Carcinogen Status: Diethanolamine and cocamide diethanolamine are listed by IARC as “Possibly Carcinogenic to Humans”, Group 2B. Diethanolamine is listed as a “Confirmed Animal Carcinogen with Unknown Relevance to Humans”, A3 by ACGIH. None of the other components greater than 0.1% are listed as a carcinogen by IARC, NTP, ACGIH, OSHA or EU Substances Directive.

Germ Cell Mutagenicity: Diethanolamine was negative in an in vitro mammalian chromosome aberration test, in vitro sister chromatid exchange assay in mammalian cells and in vivo micronucleus assay.

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Toxicity for Reproduction: In a developmental study, diethanolamine applied to rat skin on day 6-15 of gestation. Maternal toxicity such as severe skin irritation and effects to the kidney and blood occurred at 500 mg/kg. No developmental effects were seen to 1500 mg/kg. NOAEL: 1500 mg/kg teratogenicity, LOAEL 150 mg/kg maternal toxicity.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Cocamide Diethanolamine: 96 hr LC50 brachydanio rerio 6.7 mg/L; 24 hr EC50 daphnia magna 3.3 mg/L

Diethanolamine: 96 hr Pimephales promelas LC50 1460 mg/kg; 48 hr daphnia magna EC50 55 mg/L

12.2 Persistence and Degradability:

Diethanolamine and oleic acid are readily biodegradable.

12.3 Bioaccumulative Potential:

Diethanolamine has a BCF of <1 which indicates bioaccumulation is expected to be low in aquatic animals.

12.4 Mobility in Soil:

No data available.

12.5 Results of PBT and vPvB Assessment:

Not required.

12.6 Other Adverse Effects:

None known.

SECTION 13: DISPOSAL INFORMATION

13.1 Waste Treatment Methods

Dispose in accordance with local and national environmental regulations.

SECTION 14: TRANSPORT INFORMATION

	41.1 UN Number	41.2 UN Proper Shipping Name	14.3 Transport Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT		Not Regulated			
EU ADR/RID		Not Regulated			
IMDG		Not Regulated			

14.6 Special Precautions for User:

None

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable – product is transported only in packaged form.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

International Inventories:

US EPA TSCA Inventory: All of the components are listed on the TSCA inventory.

Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List.

European Union: All of the components of this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS) inventory.

Australia: All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances (AICS).

China: All of the ingredients of this product are listed on the Inventory of Existing Chemical Substance in China (IECSC).

Korea: All of the components of this product are listed on the Korean Existing Chemical List (KECL).

Japan: All of the components of this product are listed on the Japanese Existing and New Chemical Substances List (ENCS).

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New Zealand: All of the components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC).
Philippines: All of the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

U.S. REGULATIONS

CERCLA: This product has a Reportable Quantity (RQ) of 5,000 lbs. based on the RQ for diethanolamine of 100 lbs. Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.

EPA SARA 311 Hazard Classification: Acute Health, Chronic Health

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313:

Diethanolamine	111-42-2	1-2%
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California Proposition 65: This product contains the following chemicals which are known to the State of California to cause cancer, reproductive toxicity or birth defects:

Diethanolamine	111-42-2	1-2%	cancer
Cocamide Diethanolamine	68603-42-9	5-10%	cancer

INTERNATIONAL REGULATIONS

WHMIS Classification: Class D-2A (Toxic materials causing other chronic effects)

15.2 Chemical Safety Assessment:
Not required

SECTION 16: OTHER INFORMATION

SDS Revision History:

12/2/11: Converted US SDS to EU REACH SDS

11/19/14: Section 2.1 Classification, Section 2.2 Hazard Phrases and Precautionary Phrases, Section 4.1 Most important phrases, Section 11 Carcinogen Status, Section 12.1 Toxicity, Section 15 California Proportion 65.

GHS Phrases for Reference (See Section 2 and 3):

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation

H373 May cause damage to liver, kidneys and blood through prolonged or repeated exposure by ingestion.

H351 Suspected of causing cancer by ingestion.

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

Xi Irritant

Xn Harmful

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

This sheet was compiled from the latest available information and reliable sources. Procedures are based on accepted usage. They are not necessarily all-inclusive and may vary in every circumstance. Weld-Aid provides no warranties either expressed or implied and assumes no responsibility for the accuracy or completeness of the data herein.