



Safety Data Sheet

WELD KLEEN 350 ANTI-SPATTER LIQUID

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

- 1.1 Product Identifier**
Trade Name WELD KLEEN 350 ANTI-SPATTER LIQUID
Product Number 007089, 007090, 007091, 007092
- 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 14, 2014

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP/GHS Classification (1272/2008):

Physical:	Health:	Environmental
Not hazardous	Carcinogen Category 2	Not hazardous

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

2.2 Label Elements

Warning!



Contains Diethanolamine

Hazard Phrases

H351	Suspected of causing cancer by ingestion.
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Precautionary Phrases

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves, protective clothing, eye protection or face protection
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

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Chemical Name	CAS# /	EINECS#	EU Classification (67/548/EEC)	GHS Classification Regulation (EC) No 1272/2008	%
Proprietary Ingredients	Mixture	Mixture	Not classified as dangerous	Not classified as hazardous	90-100
Diethanolamine	111-42-4	203-868-0	Xn Xi R22, R38, R41, R48/22	Acute Toxicity Category 4 (H302) Skin Irritation Category 2 (H315) Eye Irritation Category 1 (H318) Specific Target Organ Toxicity – Repeat Exposure Category 2 (H372) Carcinogenicity Category 2 (H351)	0.1-<1

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, 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. If skin irritation develops, discontinue use and seek medical attention.

Inhalation: No first aid should be needed. If irritation develops, move to fresh air. Seek medical attention if irritation or other symptoms persist.

Ingestion: Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to a person who is unconscious or drowsy. Seek medical attention.

Notes to Physicians: Treat symptomatically.

4.2 Most Important symptoms and effects, both acute and delayed:

May cause mild eye 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 any media that is suitable for the surrounding fire. Cool fire exposed containers with water.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: None known.

Hazardous Decomposition Products: Carbon oxides.

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate protective clothing.

6.2 Environmental Precautions:

Avoid release into the environment. 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.

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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 application.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure Limits
Proprietary Ingredients	None Established
Diethanolamine	1 mg/m ³ , skin TWA ACGIH TLV (as inhalable fraction and vapor) 1 mg/m ³ , skin TWA DFG MAK (inhalable)

8.2 Exposure Controls:

Engineering Controls: Use with adequate local exhaust ventilation to minimize exposures levels.

Respiratory Protection: None required for normal use. 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 such as rubber are recommended if needed to avoid prolonged skin contact.

Eye Protection: Safety glasses recommended if splashing is possible in use. 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: Red liquid	Vapor Density: same as water
Odor: No odor.	Specific Gravity: 1.0
Odor Threshold: Not available	Water Solubility: 100% @ 25°C
pH: Not available	Octanol/Water Partition Coefficient: Not available
Melting Point/Freezing Point: Not applicable	Autoignition Temperature: Not available
Boiling Point: 212°F (100°C)	Decomposition Temperature: Not applicable
Flash Point: Not flammable.	Viscosity: 1 cps @ 25°C
Evaporation Rate: same as water	Explosion Properties: Not explosive
Flammable Limits: Not determined	Oxidizing Properties: Not oxidizing
Vapor Pressure: 17.5 @ 20°C	

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.

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- 10.3 Possibility of Hazardous Reactions:**
None known.
- 10.4 Conditions to Avoid:**
None known.
- 10.5 Incompatible Materials:**
Avoid strong oxidizers, acids and alkalis.
- 10.6 Hazardous Decomposition Products:**
May produce oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Information on Toxicological Effects:**
Eye: Direct contact may cause mild eye irritation with redness and tearing.
Skin: Prolonged contact can cause mild irritation, and dryness.
Inhalation: Vapors or mists may cause mucous membrane and upper respiratory tract irritation.
Ingestion: May cause nausea. Swallowing large amounts may be harmful.
Chronic Hazards: No chronic effects are anticipated.

Acute Toxicity Values:

Product: Oral rat LD50 9,000 mg/kg; Skin rabbit LD50 >2,000 - 20,000 mg/kg;

Irritation: No data available. Product is expected to cause mild eye irritation.

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 is listed by IARC as "Possibly Carcinogenic to Humans", Group 2B and 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: No data available. 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. This product is not expected to cause mutagenic activity. This product is not expected to cause mutagenic activity.

Toxicity for Reproduction: No data available. 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. This product is not expected to cause adverse reproductive effects.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity:**
No data available for the product. This product is not expected to be harmful to aquatic organisms.

Diethanolamine: 96 hr Pimephales promelas LC50 1460 mg/kg; 48 hr daphnia magna EC50 55 mg/L
- 12.2 Persistence and Degradability:**
Diethanolamine is 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.

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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: For packages less than 16,670		Not Regulated			
US DOT: For packages greater than 16,670 lbs	UN3082	Environmentally Hazardous Substance Liquid n.o.s. (Diethanolamine)	9	PG II	RQ:
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.

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

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 16,670 lbs. based on the RQ for diethanolamine 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: Chronic Health

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313:
None

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 0.1-<1% cancer.

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INTERNATIONAL REGULATIONS

WHMIS Classification: Class D Division 2A

This product has been classified in accordance with the hazard criteria in the CPR and the SDS contains all the information required by the CPR.

15.2 Chemical Safety Assessment:

Not required

SECTION 16: OTHER INFORMATION

SDS Revision History:

11/14/11: Converted US SDS to EU REACH SDS

11/10/14: Updated Section 2.1, 2.2, 3.1, 4.2, 8.1, 11.1 Acute Toxicity, Carcinogen Status, 12.1, 15.1 California Proposition 65, WHMIS Classification, 16

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

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H372 Causes damage to organs through prolonged or repeated exposure.

H351 Suspected of causing cancer.

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

Xi Irritant

Xn Harmful

R22 Harmful if swallowed.

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.