

Safety Data Sheet



**Section 1: Identification**

**Product Name** Hasco Forge FE4-331A

**Relevant identified uses of the substance or mixture**

**Recommended use** Forging Compound

**Details of the supplier of the safety data sheet**

**Manufacturer** Hasco Oil Company Inc.  
 2800 Temple Ave  
 Long Beach, CA 90806  
 United States  
 www.hascooil.com

**Telephone (General)** (562) 595-8491

**Emergency telephone number**

**Manufacturer** (800) 424-9300 - Chemtrec USA

**Section 2: Hazard Identification**

**UN GHS**

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

**Classification of the substance or mixture**

**UN GHS** Skin Irritation 2  
 Eye Irritation 2A

**Label elements**

**UN GHS**

**WARNING**



**Hazard statements** Causes skin irritation  
 Causes serious eye irritation

**Precautionary statements**

**Prevention** Wear protective gloves/protective clothing/eye protection/face protection.  
 Wash thoroughly after handling.

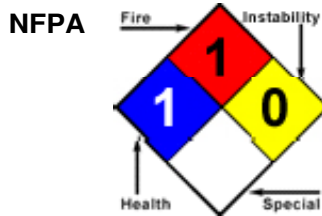
**Response** If on skin: Wash with plenty of soap and water.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If skin irritation occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 Take off contaminated clothing and wash before reuse.

**Other hazards**

UN GHS

No data available

**Other information**



**Section 3 - Composition/Information on Ingredients**

**Substances**

Composition		
Chemical Name	Identifiers	%
POLYMER	Proprietary	< 5%
Detergent	Proprietary	< 5%
Glycol ethers	CAS: 00109-86-4	< 5%
Ethanol, 2-(2-Butoxyethoxy)-	CAS: 00112-34-5	< 5%

**Section 4: First-Aid Measures**

**Description of first aid measures**

**Inhalation** If inhaled, remove to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical attention.

**Skin** After contact with skin, immediately flush skin with plenty of water for at least 15 minutes. Take off immediately all contaminated clothing and shoes and wash immediately before reuse. Get medical attention if irritation develops.

**Eye** Get medical attention if irritation develops. If contact with eyes directly, immediately flush eyes with plenty of water for at least 15 minutes.

**Ingestion** Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.

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

No data available

## Section 5: Fire-Fighting Measures

### Extinguishing media

**Suitable Extinguishing Media** Use an extinguishing agent suitable for surrounding fire.

**Unsuitable Extinguishing Media** Do not use water jet.

**Firefighting Procedures** Keep unauthorized personnel away.

### Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards** Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

**Hazardous Combustion Products** Combustion products may include the following: metal oxide/oxides, carbon oxides (carbon monoxide, carbon dioxide)

### Advice for firefighters

Wear positive pressure self-contained breathing apparatus (SCBA).  
Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

### Other information

In a fire or if heated, a pressure increase will occur and the container may burst.

## Section 6 - Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Do not walk through spilled material. Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (see: Section: "Exposure controls/personnel protection"). Follow all fire fighting procedures (see Section: "Fire-fighting measures").

**Emergency Procedures** No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

### Environmental precautions

Avoid run off to waterways and sewers. Avoid contact of spilled material with soil and prevent runoff entering surface waterways.

### Methods and material for containment and cleaning up

**Containment/Clean-up Measures** LARGE SPILL: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. SMALL SPILL: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Other Information

DONOT ADDNITRITES TO THIS FLUID.

## Section 7 - Handling and Storage

### Precautions for safe handling

**Handling**

Avoid contact with skin and clothing. Avoid contact with eyes. Use only with adequate ventilation. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Wash thoroughly after handling.

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

**Storage**

Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**Section 8 - Exposure Controls/Personal Protection**

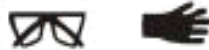
**Control parameters**

**Exposure controls**

**Engineering Measures/Controls** No data available

**Personal Protective Equipment**

**Pictograms**



**Respiratory**

Use only in adequate ventilation. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable.

**Eye/Face**

Wear protective gloves/protective clothing/eye protection/face protection. Wear safety glasses. Avoid contact with eyes.

**Hands**

Wear protective gloves.

**Skin/Body**

Wear protective gloves/protective clothing/eye protection/face protection.

**General Industrial Hygiene Considerations**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

**Environmental Exposure Controls**

No data available

**Section 9 - Physical and Chemical Properties**

**Information on Physical and Chemical Properties**

<b>Material Description</b>			
Physical Form	Liquid	Appearance/Description	Colorless to slight yellow hazy
Color	Colorless to slight yellow hazy	Odor	Mild.
Taste	Not relevant	Particulate Type	Not relevant
Particulate Size	Not relevant	Aerosol Type	Not relevant
Odor Threshold	Not relevant		
<b>General Properties</b>			
Boiling Point	No Data Available	Melting Point	Not relevant
Decomposition Temperature	No Data Available	Heat of Decomposition	No Data Available
pH	7.8 – 8.2 @ 77 F(25 C)	Specific Gravity/Relative Density	~ .99 @ 60 F(15.5C)
Density	8.246 pounds per gallon	Bulk Density	No Data Available
Water Solubility	Dispersible	Solvent Solubility	Insoluble
Viscosity	No Data Available	Explosive Properties	Not relevant

Oxidizing Properties:		No Data Available	
<b>Volatility</b>			
Vapor Pressure	No Data Available	Vapor Density	No Data Available
Evaporation Rate	No Data Available	VOC (Wt.)	No Data Available
VOC (Vol.)	31 g/L	Volatiles (Wt.)	No Data Available
Volatiles (Vol.)	No Data Available		
<b>Flammability</b>			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Flame Duration	Not relevant
Burning Time	Not relevant	Flame Height	Not relevant
Flame Extension	Not relevant	Ignition Distance	Not relevant
Self-Accelerating Decomposition	Not relevant	Autoignition	Not relevant
Burning Rate Test	Not relevant	Flammability (solid, gas)	Not relevant
<b>Environmental</b>			
Half-Life	Not relevant	Octanol/Water Partition coefficient	Not relevant
Coefficient of water/oil	Not relevant	Bioaccumulation Factor	Not relevant
Bioconcentration Factor	Not relevant	Biochemical Oxygen Demand BOD/BOD5	Not relevant
Chemical Oxygen Demand	Not relevant	Persistence	Not relevant

## Section 10: Stability and Reactivity

**Reactivity** No dangerous reaction known under conditions of normal use.

**Chemical stability** Stable

**Possibility of hazardous reactions**  
Hazardous polymerization will not occur.

**Conditions to avoid**  
No data available

**Incompatible materials**  
Incompatible Materials: Oxidizers (strong)

**Hazardous decomposition products**  
No data available

## Section 11 - Toxicological Information

### Information on toxicological effects

**Other Material Information** Alkanolamine: this product contains an alkanolamine. In all metalworking fluids containing amines, there is a potential for forming nitrosamines which are animal carcinogens. Therefore, no nitrites or related nitrosating agents should be added to such compositions.

GHS Properties	Classification
Acute toxicity	UN GHS •
Aspiration Hazard	UN GHS •
Carcinogenicity	UN GHS •
Germ Cell Mutagenicity	UN GHS •
Skin corrosion/Irritation	UN GHS • Skin Irritation 2
Skin sensitization	UN GHS •
STOT-RE	UN GHS •
STOT-SE	UN GHS •
Toxicity for Reproduction	UN GHS •
Respiratory sensitization	UN GHS •
Serious eye damage/Irritation	UN GHS • Eye Irritation 2A

**Potential Health Effects**

**Inhalation**

Acute (Immediate) No data available  
 Chronic (Delayed) No data available

**Skin**

Acute (Immediate) Causes skin irritation.  
 Chronic (Delayed) No data available

**Eye**

Acute (Immediate) Causes eye irritation.  
 Chronic (Delayed) No data available

**Ingestion**

Acute (Immediate) No data available  
 Chronic (Delayed) No data available

**Other information**

**Section 12 - Ecological Information**

**Toxicity** No data available

**Persistence and degradability** No data available.

**Bioaccumulative potential** No data available.

**Mobility in Soil** No data available.

**Other adverse effects**

**Ecological Fate** No data available

## Section 13 - Disposal Considerations

### Waste treatment methods

**Product waste**

Avoid contact of spilled material with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.

**Packaging waste**

No data available

## Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class	Packing group	Environmental hazards
DOT		Not regulated			
IMO/IMDG		Not regulated			
IATA/ICAO		Not regulated			

**Special precautions for user** No data available

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No data available

**Other information**

## Section 15 - Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications** No data available

**TSCA Inventory:** All the components of this product are listed on, or are automatically included as 'natural occurring chemical substances on, or are exempted from the requirements to be listed on the TSCA inventory.

**CALIFORNIA PROPOSITION 65:** This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

This product contains materials on the New Jersey Worker and Community Right-to-Know Act

This product contains materials on the Massachusetts Right-to-Know Act substance list.

This product contains materials on the Pennsylvania Right-to-Know Act hazardous substance list.

## Section 16 - Other Information

**Last Revision Date** No data available

**Preparation Date** November 5, 2015 Revision 1

### Disclaimer/Statement of Liability

All reasonably practicable steps have been taken to ensure this data sheet and health safety and environmental information contained in it is accurate. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Hasco Oil Company shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.

Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and any precautions that should be taken. The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.