

Safety Data Sheet



**Section 1: Identification**

**Product identifier**

**Product Name** Hasco Forge FO4-600A

**Relevant identified uses of the substance or mixture and uses advised against**

**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** 1 (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** Eye Mild Irritation 2B  
Skin Irritation 2  
Skin Sensitization 1B  
Reproductive Toxicity 2

**Label elements**

**UN GHS**

**WARNING**



**Hazard statements** Causes skin irritation  
Causes eye irritation  
Combustible liquid  
May cause eye irritation.

## Precautionary statements

**Prevention** Avoid breathing dust, fume, gas, mist, vapors and/or spray.  
 Wash thoroughly after handling.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Use personal protective equipment as required.

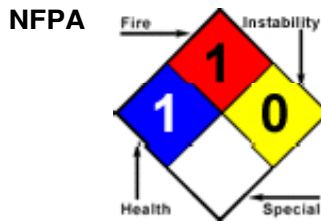
**Response** IF ON SKIN: Wash with plenty of soap and water.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF exposed or concerned: Get medical advice/attention.  
 If skin irritation occurs: Get medical advice/attention.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 Wash contaminated clothing before reuse.

**Storage/Disposal** Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Other hazards

**UN GHS** No data available

## Other information



## Section 3 - Composition/Information on Ingredients

### Substances

### Mixtures

Composition		
Chemical Name	Identifiers	%
Mineral oil, petroleum distillates, solvent-refined (severe) heavy naphthenic	CAS:64741-96-4	10 – 15%
Mineral oil, petroleum, distillate, hydro-treated, (mild) heavy paraffin, C20 –C50	CAS: 64742-54-7	30 – 40%
2-ethyl-Hexanoic acid	CAS:149-57-5	< 2%
POLYMER	Proprietary	5 -10%
Mineral oil, petroleum distillates, hydro-treated (mild) light paraffin, C15 –C30	CAS: 64742-55-8	30 - 40%

## 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** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Flush with fresh water if contact with skin or eyes. 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.

- Eye** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Ingestion** Do not induce vomiting unless directed to do so by medical personnel. If conscious, give 2 glasses of water. Get immediate medical attention. Do not give anything by mouth to an unconscious person.

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

No data available

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

**Section 5: Fire-Fighting Measures**

**Extinguishing media**

**Suitable Extinguishing Media** In case of fire, use water fog, foam, dry chemicals, or carbon dioxide.

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

**Firefighting Procedures** No actions shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Keep unauthorized personnel away.

**Special hazards arising from the substance or mixture**

**Unusual Fire and Explosion Hazards** Non-explosive in the presence of the following materials or conditions: open flames, sparks, and static discharge, heat, shocks and mechanical impacts.

**Hazardous Combustion Products** May be combustible at high temperature.

**Advice for firefighters**

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

**Section 6 - Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment. Follow all fire fighting procedures.

**Emergency Procedures** As an immediate precautionary measure isolate spill or leak area in all directions. Keep unauthorized personnel away.

**Environmental precautions**

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** If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

**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. Do not heat up to temperatures at close range to flash point.

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

**Storage**

Keep container tightly closed. Keep container in a cool, well ventilated area. Empty containers may contain harmful and / or combustible vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

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

**Control parameters**

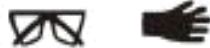
**Exposure Limits/Guidelines** Nodata available.

**Exposure controls**

**Engineering Measures/Controls** Prevent vapor build up by providing adequate ventilation during and after use.

**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. Avoid contact with eyes.

**Hands**

Wear protective gloves.

**Skin/Body**

Avoid contact with skin and clothing. Wear suitable protective clothing.

**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	Liquid
Color	Dark Brown	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	No Data Available
Decomposition Temperature	No Data Available	Heat of Decomposition	No Data Available
pH	Not relevant	Specific Gravity/Relative Density	0..88 to 0.92 @ 60 F(15.5C)
Density	7.33 to 7.66 lbs/gal @ 75F(24 C)	Bulk Density	No Data Available
Water Solubility	Not Soluble	Solvent Solubility	No Data Available

Viscosity	No Data Available	Explosive Properties	Not relevant
Oxidizing Properties:	Not relevant		
<b>Volatility</b>			
Vapor Pressure	No Data Available	Vapor Density	No Data Available
Evaporation Rate	No Data Available	VOC (Wt.)	19.8 g/L
VOC (Vol.)	No Data Available	Volatiles (Wt.)	No Data Available
Volatiles (Vol.)	No Data Available		
<b>Flammability</b>			
Flash Point	350 F(126.6 C) COC (Cleveland Open Cup) Minimum	UEL	No Data Available
LEL	No Data Available	Flame Duration	No Data Available
Heat of Combustion ( $\Delta H_c$ )	No Data Available	Burning Time	No Data Available
Flame Height	No Data Available	Flame Extension	No Data Available
Ignition Distance	No Data Available	Self-Accelerating Decomposition Temperature (SADT)	No Data Available
Autoignition	No Data Available	Flammability (solid, gas)	No Data Available
<b>Environmental</b>			
Half-Life	Not relevant	Octanol/Water Partition coefficient	Not relevant
Coefficient of water/oil distribution	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
Degradation	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 not indicated.

### Conditions to avoid

Oxidizing agents. Do not heat above the flash point.

### Incompatible materials

This product may react with strong oxidizing agents.

### Hazardous decomposition products

No data available.

## Section 11 - Toxicological Information

### Information on toxicological effects

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 • Skin Sensitizer 1B
STOT-RE	UN GHS •
STOT-SE	UN GHS •
Toxicity for Reproduction	UN GHS • Toxic to Reproduction 2
Respiratory sensitization	UN GHS •
Serious eye damage/Irritation	UN GHS • Eye Mild Irritation 2B

**Potential Health Effects**

**Inhalation**

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

**Skin**

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

**Eye**

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

**Ingestion**

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

**Other information**

Contains low concentration of 2-Ethylhexanoic Acid. Component Classified as Possible risk of harm to the unborn child.

**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**

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

	UN number	UN proper shipping	Transport hazard class (es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

**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** Nodata 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.

### Other Information:

**CALIFORNIA PROPOSITION 65:** This product does contain 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.

## Mexico

### Environment

#### Mexico - Ecological Criteria for Water Quality - Agricultural Irrigation

• 2-ethyl-Hexanoic acid	149-57-5	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (mild) light naphthenic	64742-53-6	Not Listed
• Mineral oil, petroleum distillates, solvent-refined (severe) heavy naphthenic	64741-96-4	Not Listed
• POLYMER	<i>Proprietary</i>	Not Listed

#### Mexico - Ecological Criteria for Water Quality - Drinking Water Supply Source

• 2-ethyl-Hexanoic acid	149-57-5	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (mild) light naphthenic	64742-53-6	Not Listed
• Mineral oil, petroleum distillates, solvent-refined (severe) heavy naphthenic	64741-96-4	Not Listed
• POLYMER	<i>Proprietary</i>	Not Listed

#### Mexico - Ecological Criteria for Water Quality - Protection of Fresh Water Aquatic Life

• 2-ethyl-Hexanoic acid	149-57-5	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (mild) light naphthenic	64742-53-6	Not Listed
• Mineral oil, petroleum distillates, solvent-refined (severe) heavy naphthenic	64741-96-4	Not Listed
• POLYMER	<i>Proprietary</i>	Not Listed

#### Mexico - Wastewater Discharges - Maximum Limits into Coastal Waters

• 2-ethyl-Hexanoic acid	149-57-5	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (mild) light naphthenic	64742-53-6	Not Listed
• Mineral oil, petroleum distillates, solvent-refined (severe) heavy naphthenic	64741-96-4	Not Listed
• POLYMER	<i>Proprietary</i>	Not Listed

#### Mexico - Wastewater Discharges - Maximum Limits into Natural and Artificial Dams

• 2-ethyl-Hexanoic acid	149-57-5	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (mild) light naphthenic	64742-53-6	Not Listed
• Mineral oil, petroleum distillates, solvent-refined (severe) heavy naphthenic	64741-96-4	Not Listed
POLYMER	<i>Proprietary</i>	Not Listed

#### Mexico - Wastewater Discharges - Maximum Limits into Rivers

• 2-ethyl-Hexanoic acid	149-57-5	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (mild) light naphthenic	64742-53-6	Not Listed
• Mineral oil, petroleum distillates, solvent-refined (severe) heavy naphthenic	64741-96-4	Not Listed
• POLYMER	<i>Proprietary</i>	Not Listed

#### Mexico - Wastewater Discharges - Maximum Limits into Soil

• 2-ethyl-Hexanoic acid	149-57-5	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (mild) light naphthenic	64742-53-6	Not Listed
• Mineral oil, petroleum distillates, solvent-refined (severe) heavy naphthenic	64741-96-4	Not Listed
• POLYMER	<i>Proprietary</i>	Not Listed

#### Mexico - Wastewater Discharges - Maximum Limits into Wetlands

• 2-ethyl-Hexanoic acid	149-57-5	Not Listed
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#### Mexico - Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities

• 2-ethyl-Hexanoic acid	149-57-5	Not Listed
• Mineral oil, petroleum distillates, hydrotreated (mild) light naphthenic	64742-53-6	Not Listed
• Mineral oil, petroleum distillates, solvent-refined (severe) heavy naphthenic	64741-96-4	Not Listed
• POLYMER	<i>Proprietary</i>	Not Listed



## Section 16 - Other Information

**Last Revision Date** May 20, 2015

**Preparation Date** May 20, 2015

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