

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name Hasco Forge FE4-329A

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.hascoil.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
Serious Eye Damage 1

Label elements

UN GHS

DANGER



Hazard statements Causes skin irritation
Causes serious eye damage

Precautionary statements

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

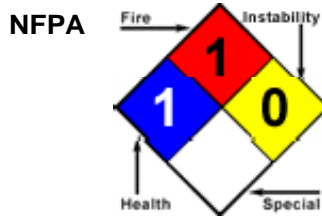
Response Wash thoroughly after handling.
 If on skin: Wash with plenty of soap and water.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If skin irritation occurs: Get medical advice/attention.
 If eye irritation persists: 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	%
Poly(oxy-1,2-ethanediyl)-, alpha-(4-nonylphenyl)-omega-hydroxy-, branched	CAS: 127087-87-0	< 5%
2-ethyl-Hexanoic acid	CAS: 149-57-5	< 2%
Graphite, Synthetic	CAS: 7782-42-5	< 10%
Detergent	Withheld as trade secret	< 10%
Polymers	Withheld as trade secret	< 10%
2-Aminoethanol	CAS: 141-43-5	< 2%
Hydrotreated light naphthenic petroleum distillate (highly refined)	CAS: 64742-53-6	< 2%

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

Other information

If 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

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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

Exposure Limits

Hazardous Components	OSHA PEL	ACGIH TLV	Other Information
Graphite Synthetic (as Total Dust) (as Respirable Dust)	15 mg/m ³ 5 mg/m ³	None 2 mg/m ³	None
Mineral oil - Mist	5 mg/m ³	5 mg/m ³	None
2-Ethylhexanoic Acid	N/E	5 mg/m ³	Inhalable Fraction and Vapor
Monoethanolamine	6 mg/m ³	6 mg/m ³	None

Protective Measures:

Provide easy access to water supply and eye wash facilities. Good general ventilation should be provided. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Respiratory Protection:

In case of inadequate ventilation use suitable respirator. Seek advice from supervisor on the company's respiratory protection standards.

Eye Protection:

Wear safety glasses with side shields (or goggles).

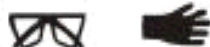
Skin and Body Protection:

Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Hygiene measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Contaminated work clothing should be laundered prior to re-use. Discard contaminated footwear that cannot be cleaned. Avoid contact with skin, eyes, and clothing.

Personal Protective Equipment Pictograms



Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Black Liquid
Color	Black.	Odor	Mild.
Taste	Not relevant	Particulate Type	Not relevant
Particulate Size	Not relevant	Aerosol Type	Not relevant
Odor Threshold	Not relevant		
General Properties			
Boiling Point	No Data Available	Melting Point	Not relevant
Decomposition Temperature	No Data Available	Heat of Decomposition	No Data Available
pH	~7.05 @ 77 F(25 C)	Specific Gravity/Relative Density	~ 1.04 @ 60 F(15.5556 C)
Density	~8.66 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		
Volatility			
Vapor Pressure	No Data Available	Vapor Density	No Data Available
Evaporation Rate	No Data Available	VOC (Wt.)	No Data Available
VOC (Vol.)	27.2 g/L	Volatiles (Wt.)	No Data Available
Volatiles (Vol.)	No Data Available		
Flammability			
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
Environmental			
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
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 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• Serious Eye Damage 1

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 damage.

Chronic (Delayed) No data available

Ingestion

Acute (Immediate) No data available

Chronic (Delayed) No data available

Other information

Contains material which may cause damage to the following organs: kidneys.

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	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

Other information No data available

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

Revision 3
Preparation Date January 10, 2017

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.

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