Safety Data Sheet



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • Buehler Polishing Oil / SDS# 9105795

Product Code • 40-8142

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

Relevant identified use(s) • Polishing Oil

1.3 Details of the supplier of the safety data sheet

Manufacturer
 BUEHLER, a division of Illinios Tool Works Inc.

41 Waukegan Road Lake Bluff, IL 60044 United States

Telephone (Technical) • 847-295-6500

1.4 Emergency telephone number

Manufacturer • 800-424-9300 - CHEMTREC

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

• Skin Irritation 2 - H315

Acute Toxicity Inhalation 4 - H332

• Harmful (Xn)

Irritant (Xi) R20, R38

2.2 Label Elements

CLP

WARNING



Hazard statements • H315 - Causes skin irritation H332 - Harmful if inhaled

Precautionary statements

Prevention • P261 - Avoid breathing mists, vapours, and/or spray.

P264 - Wash thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves .

Response • P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P312 - Call a POISON ČENTER or doctor/physician if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P321 - Specific treatment, see supplemental first aid information. P362 - Take off contaminated clothing and wash before reuse. P332+P313 - If skin irritation occurs; Get medical advice/attention.

DSD/DPD



Risk phrases • R20 - Harmful by inhalation.

R38 - Irritating to skin.

2.3 Other Hazards

• According to Regulation (EC) No. 1272/2008 (CLP) this material is considered

hazardous.

• According to European Directive 1999/45/EC this material is considered dangerous.

UN GHS

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

2.1 Classification of the substance or mixture

UN GHS

· Skin Irritation 2

Acute Toxicity Inhalation 4

2.2 Label elements

UN GHS

WARNING



Hazard statements • Causes skin irritation Harmful if inhaled

Precautionary statements

Prevention • Avoid breathing mists, vapours, and/or spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves .

Response • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water.

Specific treatment, see supplemental first aid information. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

2.3 Other hazards

UN GHS

 According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

Skin Irritation 2

Acute Toxicity Inhalation 4

2.2 Label elements **OSHA HCS 2012**

WARNING



Hazard statements • Causes skin irritation

Harmful if inhaled

Precautionary statements

Prevention • Avoid breathing mists, vapours, and/or spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves .

Response •

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

If on skin: Wash with plenty of water .

Specific treatment, see supplemental first aid information. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

2.3 Other hazards

OSHA HCS 2012

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication

Standard), this product is considered hazardous.

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS

· Other Toxic Effects - D2B

2.2 Label elements

WHMIS



· Other Toxic Effects - D2B

2.3 Other hazards

WHMIS

In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

Material does not meet the criteria of a substance.

3.2 Mixtures

	Composition						
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments		
Gas oil, blend	CAS:64741-44-2 EC Number:265- 044-7	60% TO 100%	Inhalation-Rat LC50 • 1700 mg/m³ 4 Hour(s)	UN GHS: Skin Irrit. 2; Acute Tox. 4 (inhl) EU DSD/DPD: Xi; R38; Xn; R20 EU CLP: Skin Irrit. 2, H315; Acute Tox. 4, H332 OSHA HCS 2012: Skin Irrit. 2; Acute Tox. 4 (inhl)	NDA		

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

 Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical

attention.

Skin Wash skin with soap and water. Remove contaminated clothing and shoes. If irritation

develops and persists, get medical attention.

In case of contact with substance, immediately flush eyes with running water for at Eye

least 20 minutes. If eye irritation persists: Get medical advice/attention.

Do NOT induce vomiting. Give victim a glass of water or milk. Never give anything by

4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

Ingestion

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

mouth to an unconscious person. Obtain medical attention immediately if ingested.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable Extinguishing Media

No data available

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

· None known.

Hazardous Combustion Products

 Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

5.3 Advice for firefighters

Structural firefighters' protective clothing will only provide limited protection.

Wear positive pressure self-contained breathing apparatus (SCBA).

Move containers from fire area if you can do it without risk.

LARGE FIRES: Cool containers with flooding quantities of water until well after fire is

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

 Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. May cause slipping hazard due to leakage/spillage of product.

Emergency Procedures

Keep unauthorized personnel away. Stay upwind.

6.2 Environmental precautions

Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

Stop leak if you can do it without risk. SMALL SPILLS: Take up with sand or other non-combustible absorbent material and

place into containers for later disposal. LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

Properly dispose of any contaminated rags or cleaning materials in order to prevent

6.4 Reference to other sections

• Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

 Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Empty containers may contain product residue. Do not pressurize, cut, heat, or weld empty containers. Do not reuse containers without commercial cleaning and/or reconditioning.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Keep container tightly closed. Store in a cool, dry place. Storage Temperature: 5 - 40 °C / 41 - 104 °F For containers or container linings, use mild steel or high density polyethylene.

7.3 Specific end use(s)

Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines

No applicable exposure limits available for product or components.

8.2 Exposure controls

Engineering Measures/Controls Good general ventilation should be used. 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.

Personal Protective Equipment

Respiratory

 In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face Skin/Body Wear safety goggles.

Wear appropriate gloves.

Environmental Exposure Controls

Controls should be engineered to prevent release to the environment, including
procedures to prevent spills, atmospheric release and release to waterways. Follow
best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Liquid with oil/solvent odor.
Color	May be dyed.	Odor	Oil/solvent
Taste	Data lacking	Particulate Size	Data lacking
Odor Threshold	Data lacking		
General Properties			
Boiling Point	> 280 C(> 536 F)	Melting Point/Freezing Point	-35 F(-37.2222 C)
Decomposition Temperature	Data lacking	рН	Data lacking
Specific Gravity/Relative Density	= 0.875 @ 15 C(59 F) Water=1	Water Solubility	Insoluble
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	< 0.0038 mmHg (torr) @ 20 C(68 F)	Vapor Density	> 1 Air=1
Evaporation Rate	Data lacking		
Flammability			
Flash Point	204 C(399.2 F)	UEL	Data lacking
LEL	Data lacking	Autoignition	> 320 C(> 608 F)
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

· No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

· Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

· Hazardous polymerization will not occur.

10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

• Strong oxidizing agents. DO NOT add nitrites or any nitrosating agents. May react with amines and form nitrosamines which cause cancer in animal tests.

10.6 Hazardous decomposition products

• Hazardous decomposition products are not expected to form.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components					
	64741- 44-2	Acute Toxicity: Ingestion/Oral-Rat LDLo • >5 g/kg; Behavioral:Somnolence (general depressed activity); Gastrointestinal:Hypermotility, diarrhea; Inhalation-Rat LC50 • 1700 mg/m³ 4 Hour(s); Irritation: Skin-Rabbit • 500 mg • Moderate irritation; Tumorigen / Carcinogen: Skin-Mouse TDLo • 29250 mg/kg 20 Week(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria; Skin and Appendages:Other:Tumors; Lungs, Thorax, or Respiration:Tumors			

GHS Properties	Classification
Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Serious eye damage/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Acute toxicity	EU/CLP • Acute Toxicity - Inhalation 4 OSHA HCS 2012 • Acute Toxicity - Inhalation 4 UN GHS • Acute Toxicity - Inhalation 4
Aspiration Hazard	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Carcinogenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2 UN GHS • Skin Irritation 2
Skin sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking UN GHS • Data lacking
STOT-RE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking UN GHS • Data lacking
STOT-SE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

	UN GHS • Data lacking
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking UN GHS • Data lacking

Potential Health Effects

Inhalation

Acute (Immediate)

 Harmful if inhaled. Inhalation of high vapor concentrations may cause nausea and breathing difficulties.

· No data available.

Chronic (Delayed)

Skin

Acute (Immediate)

Chronic (Delayed)

· Causes skin irritation.

No data available.

Eye

Acute (Immediate)

Chronic (Delayed)

· May cause slight irritation to eyes.

No data available.

Ingestion

Acute (Immediate)

May cause gastrointestinal irritation. Nausea and vomiting may occur.

Chronic (Delayed) No data available.

Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

Material data lacking.

12.2 Persistence and degradability

· Material data lacking.

12.3 Bioaccumulative potential

Material data lacking.

12.4 Mobility in Soil

Material data lacking.

12.5 Results of PBT and vPvB assessment

· No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

· There is no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

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

Packaging waste

international regulations.

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

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for • None specified. user

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

· Data lacking.

Section 15 - Regulatory Information

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

SARA Hazard Classifications • Acute

Inventory						
Component	Component CAS Canada DSL Canada NDSL EU EINECS EU ELNICS TSCA					
Gas oil, blend	64741-44-2	Yes	No	Yes	No	Yes

Canada

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Canada - WHMIS - Classifications of Substances

· Gas oil, blend 64741-44-2 Not Listed

Canada - WHMIS - Ingredient Disclosure List

· Gas oil, blend 64741-44-2 Not Listed

Environment

Canada - CEPA - Priority Substances List

· Gas oil, blend 64741-44-2 Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

· Gas oil, blend 64741-44-2 Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

· Gas oil, blend 64741-44-2 Not Listed

- Environment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants • Gas oil, blend	64741-44-2	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities • Gas oil, blend	64741-44-2	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities • Gas oil, blend	64741-44-2	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs • Gas oil, blend	64741-44-2	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQsGas oil, blend	64741-44-2	Not Listed
U.S CERCLA/SARA - Section 313 - Emission ReportingGas oil, blend	64741-44-2	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical ListingGas oil, blend	64741-44-2	Not Listed

United States - California

U.S California - Proposition 65 - Carcinogens List • Gas oil, blend	64741-44-2	Not Listed
U.S California - Proposition 65 - Developmental ToxicityGas oil, blend	64741-44-2	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)Gas oil, blend	64741-44-2	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)Gas oil, blend	64741-44-2	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - FemaleGas oil, blend	64741-44-2	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - MaleGas oil, blend	64741-44-2	Not Listed

15.2 Chemical Safety Assessment

· No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Revision Date

• 24/September/2015

Preparation Date

• 29/April/2011

Disclaimer/Statement of Liability

 To the best of our knowledge, the information contained in this SDS is accurate or is obtained from sources believed to be accurate. However, no liability, expressed or implied, is assumed for the accuracy or completeness of the information contained herein. Buyer assumes liability in its use of the material.

Key to abbreviations

NDA = No data available