

### Section 1. Identification

**Product name** Molub-Alloy 860/460-2 ES  
**SDS #** 461168  
**Code** 461168-DE03

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

**Product use** Grease for industrial applications.  
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

**Supplier** Castrol BP Petco  
9th Floor – Times Square building  
57-69F Dong Khoi Street  
District 1, Ho Chi Minh City  
Vietnam  
Tel: 84-28-38219596 / 38219153  
Fax: 84-28-38219603 / 38219152  
**Carechem:** +65 3158 1074 (24/7)

#### **EMERGENCY SPILL INFORMATION:**

### Section 2. Hazards identification

**Classification of the substance or mixture**  SKIN SENSITISATION - Category 1

#### GHS label elements


##### Hazard pictograms



##### Signal word


Warning

##### Hazard statements


 H317 - May cause an allergic skin reaction.

##### Precautionary statements

###### Prevention

 P280 - Wear protective gloves.  
P261 - Avoid breathing dust.  
P272 - Contaminated work clothing should not be allowed out of the workplace.

###### Response

 P362 + P364 - Take off contaminated clothing and wash it before reuse.  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 - If skin irritation or rash occurs: Get medical attention.

###### Storage

 Not applicable.

###### Disposal

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

##### Routes of entry

 Dermal contact. Eye contact. Inhalation. Ingestion.

## Section 2. Hazards identification

### Other hazards which do not result in classification

Defatting to the skin.  
Note: High Pressure Applications  
Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency.  
See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet.

## Section 3. Composition/information on ingredients

### Substance/mixture

Mixture

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives. Thickening agent.

Ingredient name	CAS number	%
Residual oils (petroleum), solvent-dewaxed	64742-62-7	≥50 - ≤75
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	≥10 - ≤25
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	≥10 - ≤25
Residual oils (petroleum), hydrotreated	64742-57-0	≤10
Dilithium azelate (Nonanedioic acid dilithium salt)	38900-29-7	≤3
bismuth(3+) neodecanoate	34364-26-6	≤3
Graphite	7782-42-5	≤3
calcium carbonate	471-34-1	≤3
2,5-bis(octyldithio)-1,3,4-thiadiazole	13539-13-4	≤0.3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

#### Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.

#### Inhalation

Inhaled, remove to fresh air. Get medical attention if symptoms occur.

#### Skin contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Wash clothing before reuse. Clean shoes thoroughly before reuse. In the event of any complaints or symptoms, avoid further exposure. Get medical attention. If skin irritation or rash occurs: Get medical advice/attention.

#### Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if adverse health effects persist or are severe.

### Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

### Indication of immediate medical attention and special treatment needed, if necessary

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## Section 4. First aid measures

### Notes to physician

Treatment should in general be symptomatic and directed to relieving any effects.

Note: High Pressure Applications

Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis.

Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

### Specific treatments

No specific treatment.

### Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## Section 5. Firefighting measures

### Extinguishing media

#### Suitable extinguishing media

In case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide extinguisher or spray.

#### Unsuitable extinguishing media

Do not use water jet.

### Specific hazards arising from the chemical

No specific fire or explosion hazard.

#### Hazardous thermal decomposition products

Combustion products may include the following:  
metal oxide/oxides  
carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

### Special protective actions for fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

### Special protective equipment for fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

#### For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and material for containment and cleaning up

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## Section 6. Accidental release measures

### Small spill

Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

### Large spill

Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. If emergency personnel are unavailable, contain spill material. Suction or scoop the spill into appropriate disposal or recycling vessels, then cover spill area with oil absorbent. Dispose of via a licensed waste disposal contractor. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container.

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated work clothing should not be allowed out of the workplace. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

#### Not suitable

Prolonged exposure to elevated temperature

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Residual oils (petroleum), solvent-dewaxed	<b>Ministry of Health (Viet Nam). [mineral oil]</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/Revised: 10/2002 Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/Revised: 10/2002 Form: Mist
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<b>Ministry of Health (Viet Nam). [mineral oil]</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/Revised: 10/2002 Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/Revised: 10/2002 Form: Mist
Distillates (petroleum), hydrotreated heavy paraffinic	<b>Ministry of Health (Viet Nam). [mineral oil]</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/Revised: 10/2002 Form: Mist

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## Section 8. Exposure controls/personal protection

Residual oils (petroleum), hydrotreated	STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/Revised: 10/2002 Form: Mist <b>Ministry of Health (Viet Nam). [mineral oil]</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/Revised: 10/2002 Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/Revised: 10/2002 Form: Mist
Graphite	<b>Ministry of Health (Viet Nam). [bụi graphit]</b> TWA: 1 mg/m <sup>3</sup> 8 hours. Issued/Revised: 9/2019 Form: Respirable dust TWA: 2 mg/m <sup>3</sup> 8 hours. Issued/Revised: 9/2019 Form: Total dust
calcium carbonate	<b>Ministry of Health (Viet Nam).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Issued/Revised: 10/2002

### Biological exposure indices

No exposure indices known.

### Recommended monitoring procedures

Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### Hygiene measures

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.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

Safety glasses with side shields.

#### Skin protection

## Section 8. Exposure controls/personal protection

### Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

### Skin protection

Use of protective clothing is good industrial practice. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

#### Physical state

Grease

#### Colour

Grey.

#### Odour

Not available.

#### Odour threshold

Not available.

#### pH

Not applicable.

#### Melting point/freezing point

Not available.

#### Boiling point, initial boiling point, and boiling range

Not available.

#### Flash point

Closed cup: 269°C (516.2°F) [Estimated. Based on Lubricants - Base Oils]

#### Evaporation rate

Not available.

#### Flammability

Not available.

#### Lower and upper explosion limit/flammability limit

Not applicable.

#### Vapour pressure

Not available.

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method

#### Relative vapour density

Not applicable.

#### Density

<1000 kg/m<sup>3</sup> (<1 g/cm<sup>3</sup>) at 20°C

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## Section 9. Physical and chemical properties

**Relative density** Not available.

### **Solubility(ies)**

Media	Result
water	Not soluble

**Partition coefficient: n-octanol/water** Not applicable.

**Auto-ignition temperature** Not applicable.

**Decomposition temperature** Not available.

**Viscosity** Not available.

### **Particle characteristics**

**Median particle size** Not available.

## Section 10. Stability and reactivity

**Reactivity** No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

**Chemical stability** The product is stable.

**Possibility of hazardous reactions** Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.

**Conditions to avoid** Avoid all possible sources of ignition (spark or flame).

**Incompatible materials** Reactive or incompatible with the following materials: oxidising materials.

**Hazardous decomposition products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### **Information on toxicological effects**

#### **Acute toxicity**

Product/ ingredient name	Result/Route	Test detail	Species	Dose	Exposure	Remarks
Distillates (petroleum), hydrotreated heavy paraffinic	LD50 Dermal	OECD 402	Rabbit	>5000 mg/kg	-	Based on studies with similar substances
	LD50 Oral	OECD 401	Rat	>5000 mg/kg	-	Based on studies with similar substances
	LD50 Inhalation Dusts and mists	OECD 403	Rat	>5 mg/l	4 hours	Based on studies with similar substances
Dilithium azelate	LD50 Dermal	OECD 402	Rabbit	>2000 mg/kg	-	-

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## Section 11. Toxicological information

(Nonanedioic acid  
dilithium salt)

LD50 Oral OECD 401 Rat >300 mg/kg - -

**Conclusion/Summary** Not available.

### Irritation/Corrosion

Product/ingredient name	Test authority / Test number	Species	Route/Result	Conc.	Remarks
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 405	Rabbit	Eyes - Non-irritating to the eyes.	-	Based on studies with similar substances.
	OECD 404	Rabbit	Skin - Mild irritant	-	Based on studies with similar substances.
Dilithium azelate (Nonanedioic acid dilithium salt)	OECD 405	Rabbit	Eyes - Not irritant	-	-
	OECD 439	RhE	Skin - Not irritant	-	-

### Sensitisation

Product/ingredient name	Route of exposure	Test detail	Species	Result	Remarks
Distillates (petroleum), hydrotreated heavy paraffinic	skin	OECD 406	Not sensitising	Guinea pig	Based on studies with similar substances.
Dilithium azelate (Nonanedioic acid dilithium salt)	skin	OECD 429	Not sensitising	Mouse	-

### Mutagenicity

Product/ingredient name	Test detail	Cell / Type	Result	Remarks
Distillates (petroleum), hydrotreated heavy paraffinic	471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative	Based on studies with similar substances.
	473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
	476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
	474 Mammalian	Experiment: In vivo	Negative	Based on

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## Section 11. Toxicological information

	Erythrocyte Micronucleus Test				studies with similar substances.
		Subject: Mammal - species unspecified			
Dilithium azelate (Nonanedioic acid dilithium salt)	OECD 471	Experiment: In vitro	Negative	-	
		Subject: Bacteria			
	OECD 473	Experiment: In vitro	Negative		Based on studies with similar substances.
		Subject: Mammalian-Animal			
	OECD 476	Experiment: In vitro	Negative		Based on studies with similar substances.
		Subject: Mammalian-Animal			

**Conclusion/Summary** Not available.

### Reproductive toxicity

Product/ingredient name	Test detail	Species	Exposure	Developmental toxicity	Maternal toxicity	Fertility	Remarks
Dilithium azelate (Nonanedioic acid dilithium salt)	OECD 422	Rat	Dermal -	Negative	Negative	Negative	-

**Conclusion/Summary** Not available.

### Aspiration hazard

Not available.

### Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

### Potential acute health effects

#### Eye contact

No known significant effects or critical hazards.

#### Inhalation

No known significant effects or critical hazards.

#### Skin contact

Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.

#### Ingestion

No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

#### Eye contact

No specific data.

#### Inhalation

No specific data.

#### Skin contact

Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking

#### Ingestion

No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

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## Section 11. Toxicological information

<b>Potential immediate effects</b>	Not available.
<b>Potential delayed effects</b>	Not available.
<b>Long term exposure</b>	
<b>Potential immediate effects</b>	Not available.
<b>Potential delayed effects</b>	Not available.
<b>Potential chronic health effects</b>	
<b>General</b>	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	No known significant effects or critical hazards.
<b>Mutagenicity</b>	No known significant effects or critical hazards.
<b>Teratogenicity</b>	No known significant effects or critical hazards.
<b>Developmental effects</b>	No known significant effects or critical hazards.
<b>Fertility effects</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
<input checked="" type="checkbox"/> Oral	11056.29 mg/kg

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Species	Result	Exposure	Effects	Remarks
<input checked="" type="checkbox"/> Distillates (petroleum), hydrotreated heavy paraffinic	Daphnia	Acute EL50 >10000 mg/l	48 hours	-	-
	Fish	Acute LL50 >100 mg/l	96 hours	-	-
	Algae	Chronic NOEL ≥100 mg/l	72 hours	-	Based on studies with similar substances.
	Daphnia	Chronic NOEL 10 mg/l	21 days	-	Based on studies with similar substances.
Dilithium azelate (Nonanedioic acid dilithium salt)	Daphnia	Acute EC50 >100 mg/l	48 hours	-	-
	Fish	Acute EC50 >100 mg/l	96 hours	-	-
	Algae	Acute ErC50 23 mg/l	72 hours	-	Based on studies with similar substances.

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## Section 12. Ecological information

Algae	Chronic NOEC 3.2 mg/l	72 hours	-	Based on studies with similar substances.
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**Conclusion/Summary** Not available.

**Environmental effects** No known significant effects or critical hazards.

### Persistence and degradability

Expected to be biodegradable.

Product/ingredient name	Test	Result	Dose	Inoculum
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 301F	31 % - Not readily - 28 days	-	-
Dilithium azelate (Nonanedioic acid dilithium salt)	OECD 301B	91 % - Readily - 28 days	-	-

**Conclusion/Summary** Not available.

### Bioaccumulative potential

Not available.

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Dilithium azelate (Nonanedioic acid dilithium salt)	-3.3	-	Low

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** Not available.

**Mobility** Grease. insoluble in water.

**Other adverse effects** No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Disposal methods

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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## Section 14. Transport information

	IMDG	IATA
UN number	Not regulated.	Not regulated.
UN proper shipping name	-	-
Transport hazard class(es)	-	-
Packing group	-	-
Environmental hazards	No.	No.
Additional information	-	-

Special precautions for user Not available.

Transport in bulk according to IMO instruments Not available.

## Section 15. Regulatory information

<b>Safety, health and environmental regulations specific for the product</b>	No known specific national and/or regional regulations applicable to this product (including its ingredients).
<b>Toxic classification (TCVN 3164-79)</b>	Not classified as hazardous.
<b>International lists</b>	
<b>Australia inventory (AICC)</b>	All components are listed or exempted.
<b>Canada inventory</b>	All components are listed or exempted.
<b>China inventory (IECSC)</b>	All components are listed or exempted.
<b>REACH Status</b>	The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.
<b>Japan inventory (CSCL)</b>	At least one component is not listed.
<b>Korea inventory (KECI)</b>	All components are listed or exempted.
<b>Philippines inventory (PICCS)</b>	All components are listed or exempted.
<b>Taiwan Chemical Substances Inventory (TCSI)</b>	All components are listed or exempted.
<b>United States inventory (TSCA 8b)</b>	All components are active or exempted.

## Section 16. Other information

### History

Date of issue/ Date of revision	08 May 2024
Date of previous issue	10/11/2023
Prepared by	Product Stewardship

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## Section 16. Other information

### Key to abbreviations

ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations  
Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

✔ Indicates information that has changed from previously issued version.

### Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

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 BP Group.

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**Product name** Molub-Alloy 860/460-2 ES

**Product code** 461168-DE03

**Page:** 13/13

**Date of issue** 05/08/2024.

**Format** Vietnam

**Language** ENGLISH

**Version** 6.02

**(Vietnam)**

**(ENGLISH)**