

# P055-3-4-FF-230

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Electrical Pump

Valid from Serial No. A0720001  
Valid to Serial No. A5509999

## Safety Information

P055-3-4-FF-230

8434204037



⚠ WARNING	
	<p>To reduce risk of injury, everyone using, installing, repairing, maintaining, changing accessories on, or working near this tool <b>MUST</b> read and understand these instructions before performing any such task.</p> <p><b>DO NOT DISCARD - GIVE TO USER</b></p>

**Atlas Copco**

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## Declarations

### EU DECLARATION OF INCORPORATION

We **Atlas Copco Industrial Technique AB**, S-105 23 STOCKHOLM SWEDEN, declare under our sole responsibility that this product (with name, type and serial number, see front page) fulfils the following essential requirements of Machinery Directive 2006/42/EC, and must not be put into service until the final machinery, into which it is to be incorporated, has been declared in conformity with that Directive. It is in conformity with the following Directive(s): **2006/42/EC, 2011/65/EU, 2014/30/EU**

Harmonized standards applied:  
**DIN EN ISO 4413:2011-04, ISO 12100:2011-3**

The relevant technical documentation was compiled and was communicated in accordance with Machinery Directive 2006/42/EC part B of Annex VII. Authorities can request the technical file in electronic form from:

Product Compliance Manager, Atlas Copco Industrial Technique AB, S-105 23 Stockholm Sweden

Stockholm, 11 June 2018

**Carl von Schantz, Managing Director**

Signature of issuer

### Noise and Vibration Declaration Statement

- Sound pressure level dB(A) , uncertainty dB(A), in accordance with .
- Sound power level dB(A) , uncertainty dB(A), in accordance with .
- Vibration total value m/s<sup>2</sup>, uncertainty , in accordance with .

These declared values were obtained by laboratory type testing in accordance with the stated standards and are suitable for comparison with the declared values of other tools tested in accordance with the same standards. These declared values are not adequate for use in risk assessments and values measured in individual work places may be higher. The actual exposure values and risk of harm experienced by an individual user are unique and depend upon the way the user works, the workpiece and the workstation design, as well upon the exposure time and the physical condition of the user.

We, **Atlas Copco Industrial Technique AB**, cannot be held liable for the consequences of using the declared values, instead of values reflecting the actual exposure, in an individual risk assessment in a work place situation over which we have no control.

This tool may cause hand-arm vibration syndrome if its use is not adequately managed. An EU guide to managing hand-arm vibration can be found by accessing <http://www.pneurop.eu/index.php> and selecting 'Tools' then 'Legislation'.

We recommend a programme of health surveillance to detect early symptoms which may relate to noise or vibration exposure, so that management procedures can be modified to help prevent future impairment.

- ① If this equipment is intended for fixtured applications:  
The noise emission is given as a guide to the machine-builder. Noise and vibration emission data for the complete machine should be given in the instruction manual for the machine.

### WEEE

Information concerning **Waste of Electrical and Electronic Equipment (WEEE)**:

This product and its information, meets the requirements of the WEEE Directive (2012/19/EU), and must be handled in compliance with the directive.

The product is marked with this symbol:



Products with the symbol of a crossed out wheeled bin *with* a single black line underneath, indicates that parts within the product must be handled in compliance with the WEEE Directive. The entire product, or the WEEE parts, can be sent to your "Customer Centre" for handling.



Batteries are marked with the symbol of a crossed out wheeled bin *without* a single black line underneath. The battery must be recycled either according to local regulations or sent to your "Customer Centre" for handling.

### Regional Requirements

#### ⚠ WARNING

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to

<https://www.p65warnings.ca.gov/>

### Information regarding Article 33 in REACH

The European Regulation (EU) No. 1907/2006 on Registration, Evaluation, Authorization and restriction of Chemicals (REACH) defines among other things requirements related to communication in the supply chain. The information requirement applies also to products containing so called Substances of Very High Concern (the "Candidate List"). On 27 June 2018 lead metal (CAS nr 7439-92-1) was added to the Candidate List.

In accordance with the above this is to inform you that certain mechanical components in the product may contain lead metal. This is in compliance with current substance restriction

legislation and based on legit exemptions in the RoHS Directive (2011/65/EU). Lead metal will not leak or mutate from the product during normal use and the concentration of lead metal in the complete product is well below the applicable threshold limit. Please consider local requirements on the disposal of lead at product end of life.

## Safety

### **WARNING Risk of Property Damage or Severe Injury**

Ensure that you read, understand and follow all instructions before operating the tool. Failure to follow all the instructions may result in electric shock, fire, property damage and/or severe bodily injury.

- ▶ Read all Safety Information delivered together with the different parts of the system.
- ▶ Read all Product Instructions for installation, operation and maintenance of the different parts of the system.
- ▶ Read all locally legislated safety regulations regarding the system and parts thereof.
- ▶ Save all Safety Information and instructions for future reference.

### Statement of use

This product is designed for use with hydraulic torque wrenches using twinline hose. One for advance and one for retract pressure.

No other use permitted. For professional use only.

### **WARNING Risk of injury**

- ▶ If the torque is higher than 50 Nm, a reaction bar must be used.  
The reaction bar is designed for absorbing the reaction torque of assembly power tools.

## Product specific instructions

### Important information

#### **WARNING Crushing Hazard**

Protect your hands against crushing hazard to avoid injury. During the tightening, the wrench moves to the reaction areas and only a foot reaction can block it.

- ▶ Make sure to put your hands at a safe distance from the reaction areas of the wrench during the tightening.

#### **WARNING Burning Hazard**

Protect your hands to avoid injury. The unit could get to high temperatures both during and after use.

- ▶ Always use protective gloves.

### **WARNING High-Pressure Fluids Hazard**

Never grab, touch, or in any way come in contact with a hydraulic pressure leak. When the hydraulic circuit is pressurized, the hydraulic fluid can come out at high speed. Escaping fluid under pressure can penetrate the skin causing serious injury. If an accident occurs, contact the nearest health service **immediately!** Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.

- ▶ Always relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.
- ▶ Always wear safety approved eye wear when checking for leaks. Do not use your hands to check for leaks in the hydraulic circuit.
- ▶ Always keep away from leaking elements during the tightening process.
- ▶ Always wear impact-resistant eye and face protection when involved with or near the operation, repair or maintenance of the unit.
- ▶ Be sure all others in the area are wearing impact-resistant eye and face protection.
- ▶ Ensure that blown particles are directed so as not to cause a hazard.
- ▶ Even small projectiles can injure eyes and cause blindness.

### **WARNING Risk of Severe Injury**

Always connect the pump to a hydraulic circuit before building up pressure in the pump in order to avoid severe bodily injury.

- ▶ Connect the pump to a hydraulic circuit with a checked torque wrench and using the hose assembly.
- ▶ Only use hydraulic torque wrenches with connectors compliant with the connectors in the pump.
- ▶ Always check the condition of hoses and connectors before use.
- ▶ Only use hoses and connections intended for high pressure.

### **WARNING Risk of Severe Injury**

Monitor the hydraulic circuit before increasing the pressure. Air under pressure can cause injury.

- ▶ Always shut off the air supply when not in use or before any adjustment.
- ▶ Drain the hose of air pressure and disconnect the tool from air supply when not in use or before any adjustment.
- ▶ Always use the correct hose size and air pressure for the tool.
- ▶ Always examine the condition of the elements that assemble the hydraulic circuit. If there is any faulty element, contact the customer center to replace it with another element with the same characteristics in proper condition. Only qualified and trained personnel can do maintenance and improvement services on this device.



**⚠ WARNING Risk of Severe Injury**

Always use personal protective equipment when operating the unit. Below are possible hazardous situations:

- Impact blows to the head
- Foot injuries
- Injury to the eyes or face from flying particles, molten metal, liquid chemicals, acids or caustic liquids, chemical gases or vapors, potentially injurious light radiation, or a combination of these
- Exposure to high noise levels
- Heat, splashes from hot metals and liquids, impacts, cuts, acids, radiation, air contaminated with harmful dusts, fogs, fumes, mists, gases, smokes, sprays, and vapors.

If not avoided, the above hazardous situations could result in severe bodily injury or death.

- ▶ Always use the adequate personal protective equipment on your job site.

**⚠ WARNING Risk of Severe Injury**

Always protect the face when working with high-pressure equipment. High-pressure equipment could cause severe bodily injury.

- ▶ Always wear goggles and/or face shield.
- ▶ Monitor the pressurized equipment and pay attention to the pressure gauge, because the pressure can increase quite rapidly in case of low volume circuits.

- ① • Clean the hose and connector before use.
- This machine must be earthed. Ground the device in accordance with the local codes and regulations before use. Only qualified and trained personnel can do maintenance and improvement services on this device.
- Do not fold hoses with a radius below six times the hose diameter.
- Put the device on a reference surface plate for preventing the risk of slips, trips and falls. Secure the device to the safe structural points with certified belt.
- Use only the parts of the chassis designed for this purpose to change the position of the hydraulic unit.
- Use this unit only to apply torque to threaded bolts through hydraulic torque wrenches.

**Safety Instructions****Hydraulic supply and connection hazards**

- Disconnect the power supply and depressurize the hydraulic system before disconnecting or connecting hoses, fittings, or accessories.
- Never grab, touch, or in any way come in contact with a hydraulic pressure leak. Escaping oil can penetrate the skin and cause injury.
- All hydraulic connections must be securely connected. Loose or improper threaded fittings can be potentially dangerous if pressurized. Severe over tightening can cause premature thread failure. Fittings need to be only securely tightened and leak free.

- Ensure quick-disconnect couplings are clean and fully engaged.
- Threaded connections such as fittings, gauges etc. must be clean, securely tightened and leak-free.
- Do not use two twin hoses connected end-to-end. This will deliver high pressure to the retract side of the tool and cause it to malfunction.
- Do not use kinked hoses. Inspect and replace if damaged.
- Protect hoses and connectors from hazards such as sharp edges, heat or impacts. Inspect daily and replace if cracked, worn, damaged or leaking.
- Do not attempt to loosen the swivel connection.
- Ensure that all hydraulic equipment and accessories are rated for the pump's maximum working pressure.

**Electric supply and connection hazard**

- **WARNING -THIS MACHINE MUST BE EARTHED.** Refer to installation instructions supplied with this machine.
- Always shut off power supply and disconnect pump when not in use, before changing accessories or when making repairs.
- Guard against electric shock. Do not use electric pump if the plug is not grounded.
- Avoid electrical overloading. Use the recommended voltage / power supply as stated on the motor.
- Minimize the length of extension cords and ensure they are of adequate wire size and are grounded.
- Electric motors can spark and should never be used in any potentially explosive atmosphere unless certified for that purpose.

**Operating hazards**

- Wear proper safety attire. When handling / operating hydraulic equipment, use work gloves, safety glasses, hard hats, safety shoes, hearing protection and other applicable clothing. Do not wear loose-fitting gloves or gloves with cut or frayed fingers.
- Avoid unexpected start-up. The pump remote control is for the tool operator only. One person should operate both the pump and the tool.
- Stay clear during operation. Do not place hands or other body parts between reaction arm and reaction surface. Approach tool only to rotate application nut.
- Never position yourself in line with the bolt axis.
- Do not use force. Do not hammer on socket or tool to enhance performance. If the nut will not turn with the wrench you are using, use a larger size tool.
- Use the right tool for the job. Do not force small tools or attachments to do the job of a larger tool. Do not use a tool for purposes not intended.
- Secure the impact socket to the square drive. Ensure the square drive retainer is fully and securely engaged on the square drive.
- Proper torque reaction is essential:
  - Ensure the reaction arm is firmly abutted against a stationary object (i.e. an adjacent nut, flange, equipment housing etc.).

- Adjust reaction arm or plate according to instruction manual. Avoid excessive play.
- Ensure the reaction arm is fully engaged prior to operation.
- Ensure that the hydraulic hoses and hose connections are well clear of any obstructions and the reaction points.
- Then, and only then, apply momentary pressure to the system to ensure proper tool placement. In case of doubt, stop and readjust the reaction arm.
- Never adjust the hydraulic pressure regulator with the tool on the application. Refer to setting up instructions.
- Do not operate tools with missing shrouds or cover plates. Shrouds and cover plates prevent contact with moving internal parts of tools; if missing or damaged, they must be replaced before the tool is used again.
- Moving equipment. Do not use hydraulic hoses, swivels, pump power or remote cords as means of moving the equipment.
- Disconnect the power supply and depressurize the hydraulic system before disconnecting or connecting hoses, fittings, or accessories or adjusting or dismantling the tool.
- Regularly inspect tool, power pack, hoses, connectors, electric lines and accessories for visual damage. Refer to instruction manual for correct tool and pump maintenance and pre-operation checks.

**Projectile hazards**

- Always wear impact-resistant eye and face protection when involved with or near the operation, repair or maintenance of the tool or changing accessories on the tool.
- Be sure all others in the area are wearing impact-resistant eye and face protection. Even small projectiles can injure eyes and cause blindness.
- Serious injury can result from over-torqued or under-torqued fasteners, which can break, or loosen and separate. Released assemblies can become projectiles. Assemblies requiring a specific torque must be checked using a torque meter. NOTE So-called “click” torque wrenches do not check for potentially dangerous over-torqued conditions.
- Use only high quality impact wrench rated sockets and accessories in good condition. Sockets in poor condition or hand sockets and accessories can shatter.
- Ensure that the workpiece is securely fixed.

**Noise hazards**

- High sound levels can cause permanent hearing loss and other problems such as tinnitus. Use hearing protection as recommended by your employer or occupational health and safety regulations.

**Workplace hazards**

- Slip/Trip/Fall is a major cause of serious injury or death. Be aware of excess hose and electric cords left on the walking or work surface.
- Avoid inhaling dust or fumes or handling debris from the work process which can cause ill health (for example, cancer, birth defects, asthma and/or dermatitis). Use dust

extraction and wear respiratory protective equipment when working with materials which produce airborne particles.

- Proceed with care in unfamiliar surroundings. Be aware of potential hazards created by your work activity. This tool is not insulated from coming into contact with electric power sources.
- This equipment is not recommended for use in potentially explosive atmospheres unless certified for that purpose. Electric motors can spark and metal-to-metal contact can cause sparks.

**Useful information**

**Website**

Log in to Atlas Copco: [www.atlascopco.com](http://www.atlascopco.com).

You can find information concerning our products, accessories, spare parts and published matters on our website.

**Country of origin**

Please refer to the information on the product label.

**Warranty**

- Product warranty will expire 12 months after the product is first taken into use, but will in any case expire at the latest 13 months after delivery.
- Normal wear and tear on parts is not included within the warranty.
  - Normal wear and tear is that which requires a part change or other adjustment/overhaul during standard tools maintenance typical for that period (expressed in time, operation hours or otherwise).
- The product warranty relies on the correct use, maintenance, and repair of the tool and its component parts.
- Damage to parts that occurs as a result of inadequate maintenance or performed by parties other than Atlas Copco or their Certified Service Partners during the warranty period is not covered by the warranty.
- To avoid damage or destruction of tool parts, service the tool according to the recommended maintenance schedules and follow the correct instructions.
- Warranty repairs are only performed in Atlas Copco workshops or by Certified Service Partners.

Atlas Copco offers extended warranty and state of the art preventive maintenance through its ToolCover contracts. For further information contact your local Service representative.

For electrical motors:

- Warranty will only apply when the electric motor has not been opened.

**ServAid**

ServAid is a portal that contains technical information for all hardware and software products such as:

- Safety Information including declarations, standards and directives

## Section 1. Identification

**Product name** Hyspin HVI 46  
**SDS no.** 460902  
**Code** 460902-VN02

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

**Product use** Hydraulic fluid.  
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: 84-8-38219596 / 38219153  
Fax: 84-8-38219603 / 38219152  
Carechem: +65 3158 1074 (24/7)

### **EMERGENCY SPILL INFORMATION:**

## Section 2. Composition, information on ingredients

**Substance/mixture** Mixture  
Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

<b>Ingredient name</b>	<b>CAS number</b>	<b>%</b>
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	≥25 - ≤50
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	≥25 - ≤50

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 3. Hazards identification

**Classification of the substance or mixture** Not classified.

### GHS label elements

**Signal word** No signal word.  
**Hazard statements** No known significant effects or critical hazards.  
**Precautionary statements**  
**Prevention** Not applicable.  
**Response** Not applicable.  
**Storage** Not applicable.

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<b>Version</b> 3	<b>(Vietnam)</b>	<b>(ENGLISH)</b>

## Section 3. Hazards identification

<b>Disposal</b>	Not applicable.
<b>Routes of entry</b>	Dermal contact. Eye contact. Inhalation.
<b>Other hazards which do not result in classification</b>	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 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	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.
<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
<b>Skin contact</b>	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
<b>Ingestion</b>	Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### 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

<b>Notes to physician</b>	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.
<b>Specific treatments</b>	No specific treatment.
<b>Protection of first-aiders</b>	No action shall be taken involving any personal risk or without suitable training.

## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.
<b>Unsuitable extinguishing media</b>	Do not use water jet.

### Specific hazards arising from the chemical

<b>Hazardous thermal decomposition products</b>	In a fire or if heated, a pressure increase will occur and the container may burst.  Combustion products may include the following: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide)
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## Section 5. Firefighting measures

<b>Special protective actions for fire-fighters</b>	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.
<b>Special protective equipment for fire-fighters</b>	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

<b>For non-emergency personnel</b>	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 spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.
<b>For emergency responders</b>	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".
<b>Environmental precautions</b>	Avoid dispersal of spilled 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

<b>Small spill</b>	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
<b>Large spill</b>	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. 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. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

<b>Protective measures</b>	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	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. See also Section 8 for additional information on hygiene measures.
<b>Conditions for safe storage, including any incompatibilities</b>	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 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.
<b>Not suitable</b>	Prolonged exposure to elevated temperature

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## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

<b>Ingredient name</b>	<b>Exposure limits</b>
Distillates (petroleum), hydrotreated heavy paraffinic	<b>Ministry of Health (Viet Nam).</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).</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

#### **Recommended monitoring procedures**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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. 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**

##### **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

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**(Vietnam)**

**(ENGLISH)**



## Section 8. Exposure controls/personal protection

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

### Appearance

Physical state	Liquid.
Colour	Yellow. [Light]
Odour	Slight
Odour threshold	Not available.
pH	Not available.
Melting point	Not available.
Boiling point	Not available.
Flash point	Closed cup: >180°C (>356°F) [Pensky-Martens.]
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower and upper explosive (flammable) limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Density	<1000 kg/m <sup>3</sup> (<1 g/cm <sup>3</sup> ) at 15°C
Relative density	Not available.
Solubility	insoluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Kinematic: 46 mm <sup>2</sup> /s (46 cSt) at 40°C Kinematic: 8.1 mm <sup>2</sup> /s (8.1 cSt) at 100°C

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## Section 10. Stability and reactivity

<b>Reactivity</b>	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.
<b>Chemical stability</b>	The product is stable.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
<b>Conditions to avoid</b>	Avoid all possible sources of ignition (spark or flame).
<b>Incompatible materials</b>	Reactive or incompatible with the following materials: oxidising materials.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Aspiration hazard

Not available.

**Information on likely routes of exposure** Routes of entry anticipated: Dermal, Inhalation.

### Potential acute health effects

#### **Eye contact**

No known significant effects or critical hazards.

#### **Inhalation**

Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.

#### **Skin contact**

Defatting to the skin. May cause skin dryness and irritation.

#### **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  
dryness  
cracking

#### **Ingestion**

No specific data.

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

#### Short term exposure

##### **Potential immediate effects**

Not available.

##### **Potential delayed effects**

Not available.

#### Long term exposure

##### **Potential immediate effects**

Not available.

##### **Potential delayed effects**

Not available.

### Potential chronic health effects

#### **General**

No known significant effects or critical hazards.

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## Section 11. Toxicological information

<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>	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

**Environmental effects** This material is harmful to aquatic life.

### Persistence and degradability

Expected to be biodegradable.

### Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

### Mobility in soil

**Soil/water partition coefficient ( $K_{oc}$ )** Not available.

**Mobility** Spillages may penetrate the soil causing ground water contamination.

### Other adverse effects

No known significant effects or critical hazards.

### Other ecological information

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

## 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. 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 Annex II of Marpol and the IBC Code Not available.

## Section 15. Regulatory information

Safety, health and environmental regulations specific for the product

No known specific national and/or regional regulations applicable to this product (including its ingredients).

Toxic classification (TCVN 3164-79)

Not classified as hazardous.

### International lists

Australia inventory (AICS)

All components are listed or exempted.

Canada inventory

All components are listed or exempted.

China inventory (IECSC)

All components are listed or exempted.

REACH Status

For the REACH status of this product please consult your company contact, as identified in Section 1.

Japan inventory (ENCS)

All components are listed or exempted.

Korea inventory (KECI)

All components are listed or exempted.

Philippines inventory (PICCS)

All components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI)

All components are listed or exempted.

United States inventory (TSCA 8b)

All components are active or exempted.

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## Section 16. Other information

### History

<b>Date of issue/ Date of revision</b>	06 October 2020
<b>Date of previous issue</b>	8/3/2018
<b>Prepared by</b>	Product Stewardship
<b>Key to abbreviations</b>	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

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