



**SAFETY DATA SHEET**  
Conforms to Regulation (EC) No. 1907/2006 (REACH)  
**KUBOTA SUPER UDT**

SDS # : 088160

**SECTION 1: Identification of the substance/mixture and of the company/  
undertaking**

**1.1 Product identifier**

**Product name** : KUBOTA SUPER UDT  
**UFI** : W4V-N78H-Q00D-Y5CQ

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

Identified uses
Formulation additives, lubricants and greases - Industrial General use of lubricants and greases in vehicles or machinery - Industrial General use of lubricants and greases in vehicles or machinery - Professional Transmission fluids

**1.3 Details of the supplier of the safety data sheet**

TOTAL LUBRIFIANTS  
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92029 Nanterre Cedex FRANCE  
Tél: +33 (0)1 41 35 40 00  
Fax: +33 (0)1 41 35 84 71  
rm.msds-lubs@total.com

TOTAL ESPAÑA SAU  
Ribera del Loira 46.  
28042 MADRID  
ESPANA  
Tel: +34 91 722 08 40  
Fax: +34 91 722 08 60  
rm.es-atencion-clientes@total.com

**Contact**

H.S.E

**1.4 Emergency telephone number**

**National advisory body/Poison Center**

**Telephone number** : For declared products :  
Toxicological Information Service (SIT): +34 91 562 04 20

**Supplier**

**Telephone number** : Emergency phone: +44 1235 239670

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Skin Sens. 1, H317

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** : 5.8 percent of the mixture consists of component(s) of unknown acute oral toxicity  
 7.2 percent of the mixture consists of component(s) of unknown acute dermal toxicity  
 3 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

See Section 16 for the full text of the H statements declared above.

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

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : H317 - May cause an allergic skin reaction.

**Precautionary statements**

**Prevention** : P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

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

**Storage** : Not applicable.

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

**Hazardous ingredients** : Benzenesulfonic acid, propenated, calcium salt, overbased

**Supplemental label elements** : Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

### 2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : Prolonged or repeated contact may dry skin and cause irritation.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Distillates (petroleum), solvent-dewaxed heavy paraffinic	REACH #: 01-2119471299-27 EC: 265-169-7 CAS: 64742-65-0	≤5	Asp. Tox. 1, H304	[1] [2]
zinc bis[O,O-bis(2-ethylhexyl)] bis (dithiophosphate)	REACH #: 01-2119493635-27 EC: 224-235-5 CAS: 4259-15-8	<2.5	Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1]
Benzenesulfonic acid, propenated, calcium salt, overbased	EC: 271-877-7 CAS: 68610-84-4	≤3	Skin Sens. 1, H317 Aquatic Chronic 4, H413	[1]
methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≤0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1B, H317 STOT SE 3, H335  <b>See Section 16 for the full text of the H statements declared above.</b>	[1] [2]

**Additional information** : Mineral oil of petroleum origin Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

- Skin contact** : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- 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.

## 4.2 Most important symptoms and effects, both acute and delayed

### Over-exposure signs/symptoms

- 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.

## 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
sulfur oxides  
phosphorus oxides

## 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized 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".

- 6.2 Environmental precautions** : 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).

### 6.3 Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 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. Avoid breathing vapor or mist. 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. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## 7.2 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 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. See Section 10 for incompatible materials before handling or use.

## 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/substance	Exposure limit values
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<b>National institute of occupational safety and health (Spain, 2/2019).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: mist
methyl methacrylate	<b>National institute of occupational safety and health (Spain, 2/2019). Skin sensitizer.</b> TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.

#### **Reportable hazardous constituent(s) contained in UVCB and/or multi-constituent substance(s) complying with the classification criteria and/or with an exposure limit (OEL)**

No exposure limit value known.

**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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Advisory OEL** : Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined)

#### DNELs/DMELs

Product/substance	Type	Exposure	Value	Population	Effects	
Distillates (petroleum), solvent-dewaxed heavy paraffinic	DNEL	Long term Inhalation	5.58 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	1.19 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Oral	740 µg/kg	General population	Systemic	
	DNEL	Long term Dermal	970 µg/kg	Workers	Systemic	
	DNEL	Long term Inhalation	2.73 mg/m <sup>3</sup>	Workers	Systemic	
	zinc bis[O,O-bis(2-ethylhexyl)] bis (dithiophosphate)	DNEL	Long term Oral	0.19 mg/kg bw/day	General population	Systemic
		DNEL	Long term Inhalation	1.67 mg/m <sup>3</sup>	General population	Systemic
		DNEL	Long term Dermal	4.8 mg/kg bw/day	General population	Systemic
		DNEL	Long term Inhalation	6.6 mg/m <sup>3</sup>	Workers	Systemic
		DNEL	Long term Dermal	9.6 mg/kg bw/day	Workers	Systemic
Benzenesulfonic acid, propenated, calcium salt, overbased		DNEL	Long term Oral	1.7 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	4.17 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	8.33 mg/kg bw/day	Workers	Systemic
		DNEL	Long term Inhalation	11.8 mg/m <sup>3</sup>	General population	Systemic
		DNEL	Long term Inhalation	25.55 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Dermal	50 mg/kg bw/day	General population	Systemic	
	DNEL	Short term Dermal	100 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	267.2 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Short term Inhalation	668 mg/m <sup>3</sup>	Workers	Systemic	
	methyl methacrylate	DNEL	Short term Oral	50 mg/kg bw/day	General population	Systemic
DNEL		Long term Dermal	8.2 mg/kg bw/day	General population	Systemic	
DNEL		Long term Dermal	13.67 mg/kg bw/day	Workers	Systemic	
DNEL		Long term Inhalation	74.3 mg/m <sup>3</sup>	General population	Systemic	
DNEL		Long term Inhalation	104 mg/m <sup>3</sup>	General population	Local	
DNEL		Long term Inhalation	208 mg/m <sup>3</sup>	Workers	Local	
DNEL		Long term Inhalation	208 mg/m <sup>3</sup>	Workers	Systemic	
DNEL		Long term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local	
DNEL		Short term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local	
DNEL		Long term Dermal	1.5 mg/cm <sup>2</sup>	General population	Local	
DNEL	Short term Dermal	1.5 mg/cm <sup>2</sup>	General population	Local		

**PNECs**

Product/ingredient name	Compartment Detail	Name	Method Detail	
zinc bis[O,O-bis(2-ethylhexyl)] bis (dithiophosphate)	Fresh water	0.004 mg/l	-	
	Marine water	0.0046 mg/l	-	
	Fresh water sediment	0.0701 mg/kg dwt	-	
	Marine water sediment	0.00701 mg/kg dwt	-	
	Soil	0.0548 mg/kg dwt	-	
	Sewage Treatment Plant	3.8 mg/l	-	
	Benzenesulfonic acid, propenated, calcium salt, overbased	Fresh water	1 mg/l	-
		Marine water	1 mg/l	-
		Fresh water sediment	43500 mg/kg dwt	-
		Marine water sediment	3480 mg/kg dwt	-
Soil		8850 mg/kg dwt	-	
methyl methacrylate	Sewage Treatment Plant	1000 mg/l	-	
	Fresh water	0.94 mg/l	-	
	Marine water	0.94 mg/l	-	
	Fresh water sediment	5.74 mg/kg dwt	-	
	Soil	1.47 mg/kg dwt	-	
	Sewage Treatment Plant	10 mg/l	-	

**8.2 Exposure controls**

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**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 eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Hydrocarbon-proof gloves  
nitrile rubber

Fluorinated rubber

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency

- Body protection** : 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.
- 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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator with combination filter for vapor/particulate Type A/P1 Warning ! filters have a limited use duration The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses None under normal use conditions
- 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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid. [limpid]
- Color** : Light brown.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flash point** : Open cup: 217°C [Cleveland Open Cup (COC)]
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Upper/lower flammability or explosive limits** : Not available.
- Vapor pressure** : Not available.
- Vapor pressure 37.8°C (100°F)** : Not available.
- Vapor density** : Not available.
- Relative density** : 0.868
- Solubility(ies)** : Insoluble in the following materials: cold water and hot water.

**Partition coefficient: n-octanol/ water** : Not available.  
**Auto-ignition temperature** : Not available.  
**Decomposition temperature** : Not available.  
**Viscosity** : Kinematic (40°C): 0.4 cm<sup>2</sup>/s [ASTM D 445]  
**Explosive properties** : Not available.  
**Oxidizing properties** : Not applicable

## 9.2 Other information

**Solubility in water** : Insoluble

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

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

**10.4 Conditions to avoid** : No specific data.

**10.5 Incompatible materials** : Strong oxidizing agents

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

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/substance	Result	Species	Dose	Exposure	Test
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LC50 Inhalation Dusts and mists	Rat	5.54 mg/l	4 hours	OECD 403
	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 420
zinc bis[O,O-bis(2-ethylhexyl)] bis (dithiophosphate)	LD50 Dermal	Rabbit - Male	>5 g/kg	-	OECD 402
	LD50 Oral	Rat - Male	3.1 g/kg	-	OECD 401
Benzenesulfonic acid, propenated, calcium salt, overbased	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	-
	LD50 Dermal	Rabbit	4001 mg/kg	-	OECD 402
methyl methacrylate	LD50 Oral	Rat	>5000 mg/kg	-	OECD 423
	LC50 Inhalation Vapor	Rat	29.8 mg/l	4 hours	-
	LD50 Dermal	Rabbit	>5 g/kg	-	-
	LD50 Oral	Rat	7872 mg/kg	-	-
	LD50 Oral	Rat	>5000 mg/kg	-	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### Acute toxicity estimates

Product/substance	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	N/A	N/A	N/A	N/A	5.54
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	3100	N/A	N/A	N/A	N/A
Benzenesulfonic acid, propenated, calcium salt, overbased	N/A	4001	N/A	N/A	5.1
methyl methacrylate	7872	N/A	N/A	29.8	N/A

### Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	Skin - Edema	Rabbit	0.22	4 hours	OECD 404
	Eyes - Cornea opacity	Rabbit	1.17	-	OECD 405

### **Conclusion/Summary**

- Skin** : Based on available data, the classification criteria are not met.
- Eyes** : The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms that at the concentration used, eye irritation classification is not required
- Respiratory** : Based on available data, the classification criteria are not met.

### Sensitization

Product/substance	Route of exposure	Species	Result
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	skin	Guinea pig	Not sensitizing

### **Conclusion/Summary**

- Skin** : Based on available data, the classification criteria are met.
- Respiratory** : Based on available data, the classification criteria are not met.

### Mutagenicity

Product/substance	Test	Experiment	Result
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Carcinogenicity

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Reproductive toxicity

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Teratogenicity

Product/substance	Result	Species	Dose	Exposure
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	Negative - Oral	Rat - Male, Female	30 mg/kg NOAEL	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Product/substance	Result
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ASPIRATION HAZARD - Category 1

**Information on the likely routes of exposure** : Not available.

**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 and also 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**

Product/substance	Result	Species	Dose	Exposure
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	Sub-acute NOAEL Oral	Rat - Male, Female	125 mg/kg	-

**Conclusion/Summary** : Not available.

**General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

**Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Acute EC50 >10000 mg/l	Daphnia - Daphnia magna	48 hours	OECD 202
	Chronic NOEL 10 mg/l Chronic NOEL >1000 mg/l	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	21 days 21 days	OECD 211 -
zinc bis[O,O-bis (2-ethylhexyl)] bis (dithiophosphate)	Acute EC50 241 mg/l	Algae - Desmodesmus subspicatus	72 hours	-
	Acute EC50 75 mg/l Acute LC50 46 mg/l Chronic NOEC 0.4 mg/l Acute EC50 >1000 mg/l	Daphnia Fish Daphnia Daphnia - Daphnia magna	48 hours 96 hours 21 days 48 hours	- - - -
Benzenesulfonic acid, propenated, calcium salt, overbased	Acute LC50 1000 mg/l	Algae - Pseudokirchnerella subcapitata	72 hours	-
	Acute NOEL 1.8 mg/l Acute EC50 110 mg/l	Daphnia - Daphnia magna Algae - Selenastrum capricornutum	48 hours 72 hours	OECD 202 -
methyl methacrylate	Acute EC50 69 mg/l Acute LC50 79 mg/l Chronic NOEC 37 mg/l	Daphnia - Daphnia magna Fish Daphnia - Daphnia magna	48 hours 96 hours 21 days	- - -

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum), solvent-dewaxed heavy paraffinic	-	-	Not readily
zinc bis[O,O-bis (2-ethylhexyl)] bis (dithiophosphate)	-	-	Not readily
Benzenesulfonic acid, propenated, calcium salt, overbased	-	-	Not readily
methyl methacrylate	-	-	Readily

### 12.3 Bioaccumulative potential

Product/substance	LogK <sub>ow</sub>	BCF	Potential
Distillates (petroleum), solvent-dewaxed heavy paraffinic	9.2	260	low
zinc bis[O,O-bis(2-ethylhexyl)] bis (dithiophosphate)	3.59	-	low
Benzenesulfonic acid, propenated, calcium salt, overbased	-	64	low
methyl methacrylate	1.38	2.97	low

## 12.4 Mobility in soil

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

**Mobility** : Not available.

**Mobility in soil** : Given its physical and chemical characteristics, the product generally shows low soil mobility. The product is insoluble and floats on water. Loss by evaporation is limited.

## 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions: 13 02 05\*

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ICAO/IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## SECTION 15: Regulatory information

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

**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorization**

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Other EU regulations**

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

**Ozone depleting substances (1005/2009/EU)**

Not listed.

**Prior Informed Consent (PIC) (649/2012/EU)**

Not listed.

**Seveso Directive**

This product is not controlled under the Seveso Directive.

**National regulations**

**National regulatory information**

The Safety Data Sheet has been prepared in accordance with Annex II of Regulation No 1907/2006 and its amendment Regulation 830/2015

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**Inventory list**

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: At least one component is not listed.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (ENCS)</b> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : Not determined.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: All components are listed or exempted.
<b>Viet Nam</b>	: Not determined.

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.



# KUBOTA SUPER UDT

SDS #: 088160

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Value** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
N/A = Not available  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Sens. 1, H317	Calculation method

### Full text of abbreviated H statements

H225	Highly flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

### Full text of classifications [CLP/GHS]

Aquatic Chronic 2, H411	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 4, H413	AQUATIC HAZARD (LONG-TERM) - Category 4
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1
Skin Sens. 1B, H317	SKIN SENSITIZATION - Category 1B
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Date of revision : 3/12/2021

Date of previous revision : 3/11/2021

Version : 1.01

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mixture  
**Code** : 088160  
**Product name** : KUBOTA SUPER UDT

### Section 1 - Title

**Short title of the exposure scenario** : Formulation additives, lubricants and greases - Industrial

**List of use descriptors** : **Identified use name:** Formulation additives, lubricants and greases - Industrial  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC09, PROC15  
**Sector of end use:** SU03, SU10  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC02

**Environmental contributing scenarios** :

**Health Contributing scenarios** : **General measures applicable to all activities**  
**General exposures Use in contained systems Elevated temperature** - PROC02  
**Mixing operations Closed systems Batch processes at elevated temperatures** - PROC03  
**Mixing operations Open systems Batch processes at elevated temperatures** - PROC04, PROC05  
**Mixing operations (open systems)** - PROC04, PROC05  
**Process sampling** - PROC04, PROC08b  
**Bulk transfers Dedicated facility** - PROC08b  
**Drum/batch transfers Dedicated facility** - PROC08b  
**Drum/batch transfers Non-dedicated facility** - PROC08a  
**Equipment cleaning and maintenance** - PROC08a, PROC08b  
**Drum and small package filling** - PROC09  
**Laboratory activities** - PROC15  
**Storage** - PROC01, PROC02

<b>Processes and activities covered by the exposure scenario</b>	: Industrial formulation of lubricant additives, lubricants and greases. Includes material transfers, mixing, large and small scale packing, sampling, maintenance.
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### Section 2 - Exposure controls

#### Contributing scenario controlling environmental exposure for 1:

No exposure scenario required

#### Contributing scenario controlling worker exposure for 2: **General measures applicable to all activities**

**Concentration of substance in mixture or article** : Covers percentage substance in the product up to 100 %. (unless stated differently)  
**Physical state** : Liquid, vapor pressure < 0.5 kPa at Standard Temperature and Pressure  
**Amounts used** : Not applicable.  
**Frequency and duration of use/exposure** : Covers daily exposures up to 8 hours (unless stated differently)  
**Human factors not influenced by risk management** : Not applicable.  
**Other conditions affecting workers exposure** : Covers percentage substance in the product up to 100% (unless stated differently)

**Date of issue/Date of revision** : 10/8/2020

18/26

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Advice on general occupational hygiene** : Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Avoid direct eye contact with product, also via contamination on hands.

**Personal protection** : Use suitable eye protection.

**Contributing scenario controlling worker exposure for 3: General exposures Use in contained systems Elevated temperature**

No other specific measures identified.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 4: Mixing operations Closed systems Batch processes at elevated temperatures**

**Ventilation control measures** : Provide extract ventilation to points where emissions occur.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 5: Mixing operations Open systems Batch processes at elevated temperatures**

**Frequency and duration of use/exposure** : Avoid carrying out activities involving exposure for more than 4 hours per day.

**Ventilation control measures** : Provide extract ventilation to points where emissions occur.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 6: Mixing operations (open systems)**

**Ventilation control measures** : Provide extract ventilation to points where emissions occur.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 7: Process sampling**

**Frequency and duration of use/exposure** : Avoid carrying out activities involving exposure for more than 1 hour per day.

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.

**Contributing scenario controlling worker exposure for 8: Bulk transfers Dedicated facility**

**Frequency and duration of use/exposure** : Avoid carrying out activities involving exposure for more than 4 hours per day.

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with intensive management supervision controls.

**Contributing scenario controlling worker exposure for 9: Drum/batch transfers Dedicated facility**

**Ventilation control measures** : Provide extract ventilation to points where emissions occur.

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Contributing scenario controlling worker exposure for 10: Drum/batch transfers Non-dedicated facility**

**Frequency and duration of use/exposure** : Avoid carrying out activities involving exposure for more than 1 hour per day.

**Ventilation control measures** : Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with intensive management supervision controls.

**Contributing scenario controlling worker exposure for 11: Equipment cleaning and maintenance**

**Technical conditions and measures to control dispersion from source towards the worker** : Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

**Engineering controls** : Drain down and flush system prior to equipment break-in or maintenance.

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Advice on general occupational hygiene** : Clear spills immediately.

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with intensive management supervision controls.

**Contributing scenario controlling worker exposure for 12: Drum and small package filling**

**Ventilation control measures** : Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.

**Contributing scenario controlling worker exposure for 13: Laboratory activities**

**Frequency and duration of use/exposure** : Avoid carrying out activities involving exposure for more than 4 hours per day.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 14: Storage**

**Engineering controls** : Store substance within a closed system.

**Conditions and measures related to personal protection, hygiene and health evaluation****Section 3 - Exposure estimation and reference to its source**

**Website:** : Not applicable.

**Exposure estimation and reference to its source - Environment: 1:**

**Exposure assessment (environment):** : Used ECETOC TRA model.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 2:**

**Exposure assessment (human):** : The risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

<b>Environment</b>	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see <a href="http://www.atiel.org/reach/introduction">www.atiel.org/reach/introduction</a> .
<b>Health</b>	: Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see <a href="http://www.atiel.org/reach/introduction">www.atiel.org/reach/introduction</a> .

### Additional good practice advice beyond the REACH CSA

<b>Environment</b>	: Not available.
<b>Health</b>	: Not available.

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mixture  
**Code** : 088160  
**Product name** : KUBOTA SUPER UDT

### Section 1 - Title

**Short title of the exposure scenario** : General use of lubricants and greases in vehicles or machinery - Industrial

**List of use descriptors** : **Identified use name:** General use of lubricants and greases in vehicles or machinery - Industrial  
**Process Category:** PROC01, PROC02, PROC08b, PROC09  
**Sector of end use:** SU03  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC04, ERC07

**Environmental contributing scenarios** :

**Health Contributing scenarios** : **General measures applicable to all activities**  
**General exposures (closed systems)** - PROC01  
**Initial factory fill of equipment Use in contained systems** - PROC02, PROC09  
**Initial factory fill of equipment Open systems** - PROC08b  
**Operation of equipment containing engine oils and similar Use in contained systems** - PROC01  
**Equipment cleaning and maintenance** - PROC08b  
**Equipment cleaning and maintenance Operation is carried out at elevated temperature (> 20°C above ambient temperature)** - PROC08b  
**Storage** - PROC01, PROC02

<b>Processes and activities covered by the exposure scenario</b>	: Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.
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### Section 2 - Exposure controls

#### Contributing scenario controlling environmental exposure for 1:

No exposure scenario required

#### Contributing scenario controlling worker exposure for 2: **General measures applicable to all activities**

**Concentration of substance in mixture or article** : Covers percentage substance in the product up to 100% (unless stated differently).

**Physical state** : Liquid, vapor pressure < 0.5 kPa at Standard Temperature and Pressure.

**Frequency and duration of use/exposure** : Covers daily exposures up to 8 hours (unless stated differently).

**Other conditions affecting workers exposure** : Assumes use at not more than 20°C above ambient temperature. unless stated differently.  
Assumes a good basic standard of occupational hygiene has been implemented.

#### **Conditions and measures related to personal protection, hygiene and health evaluation**

**Advice on general occupational hygiene** : Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Avoid direct eye contact with product, also via contamination on hands.

**Personal protection** : Use suitable eye protection.

**Contributing scenario controlling worker exposure for 3: General exposures (closed systems)**

No other specific measures identified.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 4: Initial factory fill of equipment Use in contained systems**

No other specific measures identified.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 5: Initial factory fill of equipment Open systems**

**Frequency and duration of use/exposure** : Avoid carrying out activities involving exposure for more than 4 hours per day.

**Ventilation control measures** : Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour)

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 6: Operation of equipment containing engine oils and similar Use in contained systems**

No other specific measures identified.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 7: Equipment cleaning and maintenance**

**Technical conditions and measures at process level (source) to prevent release** : Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

**Engineering controls** : Drain down system prior to equipment break-in or maintenance.

**Ventilation control measures** : Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.

**Contributing scenario controlling worker exposure for 8: Equipment cleaning and maintenance Operation is carried out at elevated temperature (> 20°C above ambient temperature)**

**Technical conditions and measures to control dispersion from source towards the worker** : Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

**Engineering controls** : Drain down system prior to equipment break-in or maintenance.

**Ventilation control measures** : Provide extract ventilation to emission points when contact with warm (>50°C) lubricant is likely.

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with intensive management supervision controls.

**Contributing scenario controlling worker exposure for 9: Storage**

**Engineering controls** : Store substance within a closed system.

**Conditions and measures related to personal protection, hygiene and health evaluation****Section 3 - Exposure estimation and reference to its source**

**Website:** : Not applicable.

**Exposure estimation and reference to its source - Environment: 1:**

**Exposure assessment (environment):** : Used ECETOC TRA model.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 2:**

<b>Exposure assessment (human):</b>	: The risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.
<b>Exposure estimation and reference to its source</b>	: Not available.

**Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

<b>Environment</b>	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see <a href="http://www.atiel.org/reach/introduction">www.atiel.org/reach/introduction</a> .
<b>Health</b>	: Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see <a href="http://www.atiel.org/reach/introduction">www.atiel.org/reach/introduction</a> .

**Additional good practice advice beyond the REACH CSA**

<b>Environment</b>	: Not available.
<b>Health</b>	: Not available.

## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

**Product definition** : Mixture  
**Code** : 088160  
**Product name** : KUBOTA SUPER UDT

### Section 1 - Title

**Short title of the exposure scenario** : General use of lubricants and greases in vehicles or machinery - Professional

**List of use descriptors** : **Identified use name:** General use of lubricants and greases in vehicles or machinery - Professional  
**Process Category:** PROC01, PROC02, PROC08a, PROC08b, PROC20  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC09a, ERC09b

**Environmental contributing scenarios** :

**Health Contributing scenarios** : **General measures applicable to all activities**  
**Operation of equipment containing engine oils and similar Use in contained systems** - PROC01  
**Material transfers Non-dedicated facility** - PROC08a  
**Equipment cleaning and maintenance Dedicated facility** - PROC08b, PROC20  
**Storage** - PROC01, PROC02

<b>Processes and activities covered by the exposure scenario</b>	: Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.
--	---

### Section 2 - Exposure controls

#### Contributing scenario controlling environmental exposure for 1:

No exposure scenario required

#### Contributing scenario controlling worker exposure for 2: **General measures applicable to all activities**

**Concentration of substance in mixture or article** : Covers percentage substance in the product up to 100% (unless stated differently).

**Physical state** : Liquid, vapor pressure < 0.5 kPa at Standard Temperature and Pressure.

**Frequency and duration of use/exposure** : Covers daily exposures up to 8 hours (unless stated differently).

**Other conditions affecting workers exposure** : Assumes use at not more than 20°C above ambient temperature. unless stated differently.  
Assumes a good basic standard of occupational hygiene has been implemented.

#### **Conditions and measures related to personal protection, hygiene and health evaluation**

**Advice on general occupational hygiene** : Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Avoid direct eye contact with product, also via contamination on hands.

**Personal protection** : Use suitable eye protection.

**Contributing scenario controlling worker exposure for 3: Operation of equipment containing engine oils and similar Use in contained systems**

No other specific measures identified.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 4: Material transfers Non-dedicated facility**

**Frequency and duration of use/exposure** : Avoid carrying out activities involving exposure for more than 4 hours per day.

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.

**Contributing scenario controlling worker exposure for 5: Equipment cleaning and maintenance Dedicated facility**

**Technical conditions and measures at process level (source) to prevent release** : Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

**Engineering controls** : Drain down system prior to equipment break-in or maintenance.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 6: Storage**

**Engineering controls** : Store substance within a closed system.

**Conditions and measures related to personal protection, hygiene and health evaluation****Section 3 - Exposure estimation and reference to its source**

**Website:** : Not applicable.

**Exposure estimation and reference to its source - Environment: 1:**

**Exposure assessment (environment):** : Used ECETOC TRA model.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 2:**

**Exposure assessment (human):** : The risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

**Environment** : Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see [www.atiel.org/reach/introduction](http://www.atiel.org/reach/introduction).

**Health** : Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see [www.atiel.org/reach/introduction](http://www.atiel.org/reach/introduction).

**Additional good practice advice beyond the REACH CSA**

**Environment** : Not available.

**Health** : Not available.