

# ICD (International Compressor Distribution) nv

Chemwatch: **5249-87** Version No: **13.1.1.1** Safety Data Sheet (Conforms to Regulation (EU) No 2015/830) Issue Date: **30/10/2019**Print Date: **07/01/2020**L.REACH.BEL.EN

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

# 1.1. Product Identifier

Product name	Rotair Xtra
Synonyms	Rotair Xtra
Other means of identification	Not Available

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

Relevant identified uses	Compressor oil
Uses advised against	Not Applicable

# 1.3. Details of the supplier of the safety data sheet

Registered company name	ICD (International Compressor Distribution) nv	
Address	omsesteenweg 957 Wilrijk B-2610 Belgium	
Telephone	+32 3 870 2111	
Fax	+32 3 870 2903	
Website	Not Available	
Email	info.lubricants@icdcompany.com	

# 1.4. Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	+32 800 81 450
Other emergency telephone numbers	+32 2 700 63 06

Once connected and if the message is not in your prefered language then please dial 01

# **SECTION 2 HAZARDS IDENTIFICATION**

#### 2.1. Classification of the substance or mixture

Classification according to	
regulation (EC) No 1272/2008 [CLP]	Not Applicable
12/2/2006 [CLP]	

### 2.2. Label elements

Hazard pictogram(s) Not Applicable
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SIGNAL WORD

NOT APPLICABLE

# Hazard statement(s)

Not Applicable

# Supplementary statement(s)

EUH208	Contains 3-(diisobutoxythiophosphorylsulfanyl)methylpropionic acid. May produce an allergic reaction.	
EUH210	Safety data sheet available on request.	

# Precautionary statement(s) Prevention

Not Applicable

# Precautionary statement(s) Response

Not Applicable

# Precautionary statement(s) Storage

Not Applicable

# Precautionary statement(s) Disposal

Not Applicable

#### 2.3. Other hazards

REACh - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

# **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

# 3.2.Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP]
1.68411-46-1. 2.270-128-1 411-790-5 3.Not Available 4.01-2119491299-23-XXXX	1-2.4	alkaryl amine	Chronic Aquatic Hazard Category 3; H412 [1]
1.268567-32-4 2.434-070-2 3.Not Available 4.Not Available	0.1-0.9	3-(diisobutoxythiophosphorylsulfanyl)methylpropionic acid	Skin Sensitizer Category 1B,Serious Eye Damage Category 1; H317, H318 [1]
Legend:		by Chemwatch; 2. Classification drawn from Regulation (EUDELVs available	I) No 1272/2008 - Annex VI; 3. Classification drawn from

# **SECTION 4 FIRST AID MEASURES**

### 4.1. Description of first aid measures

2000p	···· · · · · · · · · · · · · ·		
Eye Contact	<ul> <li>If in eyes, hold eyelids apart and flush the eye continuously with running water.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>		
Skin Contact	If skin contact occurs:  If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.		
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>		
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> </ul>		

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- ▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- ► Seek medical advice.
- Avoid giving milk or oils.
- Avoid giving alcohol.

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

See Section 11

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

Treat symptomatically.

- Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.
- ▶ In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases.
- ▶ High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

**NOTE:** Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

#### **SECTION 5 FIREFIGHTING MEASURES**

#### 5.1. Extinguishing media

- Foam.
- Dry chemical powder.
- ► Carbon dioxide.
- ▶ Water spray or fog Large fires only.

Do not use a water jet to fight fire.

#### 5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	<ul> <li>Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may</li> </ul>
	result

# 5.3. Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> </ul>

#### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

# 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

#### 6.2. Environmental precautions

See section 12

#### 6.3. Methods and material for containment and cleaning up

Minor Spills	Slippery when spilt.  Remove all ignition sources.  Clean up all spills immediately.  Avoid breathing vapours and contact with skin and eyes.  Control personal contact with the substance, by using protective equipment.  Contain and absorb spill with sand, earth, inert material or vermiculite.
Major Spills	Slippery when spilt.  Moderate hazard.  Clear area of personnel and move upwind.  Alert Fire Brigade and tell them location and nature of hazard.

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- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.

#### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid. ▶ Containers, even those that have been emptied, may contain explosive vapours. ▶ Do NOT cut, drill, grind, weld or perform similar operations on or near containers. ▶ DO NOT allow clothing wet with material to stay in contact with skin ▶ Electrostatic discharge may be generated during pumping - this may result in fire. ► Ensure electrical continuity by bonding and grounding (earthing) all equipment. Safe handling ▶ Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec). Avoid splash filling. ▶ Do NOT use compressed air for filling discharging or handling operations. ▶ Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. ▶ Use in a well-ventilated area. ▶ Prevent concentration in hollows and sumps. ▶ DO NOT enter confined spaces until atmosphere has been checked. Fire and explosion See section 5 protection Store in original containers. Keep containers securely sealed. Other information ▶ No smoking, naked lights or ignition sources. ▶ Store in a cool, dry, well-ventilated area.

# 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	CARE: Water in contact with heated material may cause foaming or a steam explosion with possible severe burns from wide scattering of hot material. Resultant overflow of containers may result in fire.  • Avoid reaction with oxidising agents

• Store away from incompatible materials and foodstuff containers.

# 7.3. Specific end use(s)

See section 1.2

#### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### 8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
alkaryl amine	Dermal 0.08 mg/kg bw/day (Systemic, Chronic) Inhalation 0.6 mg/m³ (Systemic, Chronic) Dermal 0.04 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.14 mg/m³ (Systemic, Chronic) * Oral 0.04 mg/kg bw/day (Systemic, Chronic) *	0.051 mg/L (Water (Fresh)) 0.0051 mg/L (Water - Intermittent release) 0.51 mg/L (Water (Marine)) 9320 mg/kg sediment dw (Sediment (Fresh Water)) 932 mg/kg sediment dw (Sediment (Marine)) 1860 mg/kg soil dw (Soil) 1 mg/L (STP)

<sup>\*</sup> Values for General Population

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

# INGREDIENT DATA

Source	Ingradient	Material name	TWA	STEL	Book	Notes
Source	Ingredient	Material Hairie	IVVA	SIEL	Peak	Notes

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	Not Available						
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#### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Rotair Xtra	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
alkaryl amine	Not Available	Not Available
3-(diisobutoxythiophosphorylsulfanyl)methylpropionic acid	Not Available	Not Available

#### OCCUPATIONAL EXPOSURE BANDING

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
3-(diisobutoxythiophosphorylsulfanyl)methylpropionic acid	D > 0.1 to ≤ 1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.	

#### MATERIAL DATA

#### 8.2. Exposure controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

#### 8.2.1. Appropriate engineering controls

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly.

# 8.2.2. Personal protection









- ► Safety glasses with side shields
- Chemical goggles.

#### Eye and face protection

▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available.

# Skin protection

See Hand protection below

# Hands/feet protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands.

- ► Neoprene rubber gloves
- ▶ Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

# **Body protection**

See Other protection below

# Other protection

Overalls.

#### P.V.C. apron. Barrier cream

Skin cleansing cream.

# Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection	Maximum gas/vapour concentration present in air p.p.m. (by	Half-face	Full-Face
factor	volume)	Respirator	Respirator

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up to 10	1000	A-AUS / Class1	-
up to 50	1000	-	A-AUS / Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	A-2
up to 100	10000	-	A-3
100+			Airline**

 $<sup>^{\</sup>star}$  - Continuous Flow  $^{\star\star}$  - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

# 8.2.3. Environmental exposure controls

See section 12

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on basic physical and chemical properties

Appearance	Clear light brown liquid, slight hydrocarbon odour		
Physical state	Liquid	Relative density (Water = 1)	0.843 @ 15 C
Odour	Not Available	Partition coefficient n-octanol / water	>6
Odour threshold	Not Available	Auto-ignition temperature (°C)	>320
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	-45 (pour pt)	Viscosity (cSt)	46 @ 40C
Initial boiling point and boiling range (°C)	~>280	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	230	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	10	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	<0.0005 @ 20C	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	>1	VOC g/L	0 (%)

#### 9.2. Other information

Not Available

# **SECTION 10 STABILITY AND REACTIVITY**

10.1.Reactivity	See section 7.2
10.2. Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

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#### **SECTION 11 TOXICOLOGICAL INFORMATION**

# 11.1. Information on toxicological effects

Inhaled	Inhalation hazard is increased at higher temperatures.  Inhalation of oil droplets/ aerosols may cause discomfort and may produce chemical pneumonitis.  Acute effects from inhalation of high concentrations of vapour are pulmonary irritation, including coughing, with nausea; central nervous system depression - characterised by headache and dizziness, increased reaction time, fatigue and loss of co-ordination
Ingestion	Ingestion may result in nausea, abdominal irritation, pain and vomiting
Skin Contact	Open cuts, abraded or irritated skin should not be exposed to this material The material may accentuate any pre-existing dermatitis condition Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.
Еуе	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
Chronic	Repeated or prolonged exposure to mixed hydrocarbons may produce narcosis with dizziness, weakness, irritability, concentration and/or memory loss, tremor in the fingers and tongue, vertigo, olfactory disorders, constriction of visual field, paraesthesias of the extremities, weight loss and anaemia and degenerative changes in the liver and kidney. Chronic exposure by petroleum workers, to the lighter hydrocarbons, has been associated with visual disturbances, damage to the central nervous system, peripheral neuropathies (including numbness and paraesthesias), psychological and neurophysiological deficits, bone marrow toxicities (including hypoplasia possibly due to benzene) and hepatic and renal involvement. Chronic dermal exposure to petroleum hydrocarbons may result in defatting which produces localised dermatoses. Surface cracking and erosion may also increase susceptibility to infection by microorganisms. One epidemiological study of petroleum refinery workers has reported elevations in standard mortality ratios for skin cancer along with a dose-response relationship indicating an association between routine workplace exposure to petroleum or one of its constituents and skin cancer, particularly melanoma.  Repeated application of mildly hydrotreated oils (principally paraffinic), to mouse skin, induced skin tumours; no tumours were induced with severely hydrotreated oils.

TOXICITY	IRRITATION
Dermal (Rabbit) LD50: >5000 mg/kg <sup>[2]</sup>	Not Available
Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup>	
TOXICITY	IRRITATION
dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): Non Irritant
Oral (rat) LD50: >2000 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>
	Skin (rabbit): Non Irritant [Bay]
	Skin: adverse effect observed (irritating) <sup>[1]</sup>
TOXICITY	IRRITATION
Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Eye:Severe <sup>[1]</sup>
Oral (rat) LD50: >2000mg/kg <sup>[2]</sup>	Skin:Not irritating <sup>[1]</sup>
	Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: >2000 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>

Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

# ${\tt 3-(DIISOBUTOXYTHIOPHOSPHORYLSULFANYL)METHYLPROPIONIC}\\ {\tt ACID}\\$

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important.

Evidence of sensitisation in guinea pig skin assay \* Oral repeat dose toxicity (28 days): NOEL 20 mg/kg/day bw \* Non-mutagenic in bacterial reverse mutation assay \* Non-genotoxic in in vivo micronucleus test \* The chemical was of low acute oral and dermal toxicity in rats, was not a skin irritant but was a slight eye irritant in rabbits, and was neither mutagenic in bacteria nor clastogenic in mouse bone marrow cells. It was a skin sensitiser in guinea pigs and exhibited systemic effects at a dose of 500 mg/kg/day bw in a 28-day oral repeated dose study in rats although some of these effects may have been adaptive in nature Clinical Chemistry Elevated

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triglyceride and phospholipid levels were noted in high dose animals of both sexes and elevated cholesterol levels in high dose females. These changes were considered to be an adaptive response and were reversed during the recovery period. All changes were within the 95% confidence limits of the historical control data. Higher albumin levels and albumin/globulin ratios were found in high dose animals of both sexes, higher total protein in high dose females. After recovery the elevated albumin levels persisted in males. All changes were within the 95% confidence limits of the historical control data. High dose males exhibited higher urea and lower creatinine levels which were within the 95% confidence limits of the historical control data. Haematology Plasma haemoglobin concentration and haematocrit were lower in high dose animals and red blood cell count was lower in high dose females. The toxicological significance of these findings is uncertain. High dose animals exhibited a prolonged activated partial thromboplastin time, females had a shorter thromboplastin time and males had a higher platelet count. All changes were within the 95% confidence limits of the historical control data. Prolonged activated PTT and platelet counts reached statistical significance in high dose recovery group males. Urinalysis Ketone was present in mid dose females and high dose animals of both sexes and was considered to be related to the adaptive changes in lipid metabolism. High dose females exhibited higher specific gravity and high dose animals of both sexes had slightly lower urine production. These were within the 95% confidence limits of historical control data and may indicate a possible change in the ability to concentrate urine. Effects in Organs High dose animals exhibited higher absolute and relative liver weights. These effects persisted in males at the end of the recovery period and were considered to be treatment related yet adaptive. High dose animals exhibited higher kidney/body weight ratios, higher absolute kidney weights and kidney to brain weight ratio. Mid dose males also exhibited an elevated kidney/body weight ratio. CONCLUSION The No Observed Effect Level (NOEL) was established as 20 mg/kg bw/day in this study, based on elevated kidney/body weight ratio in males NICNAS Full Public Report 11

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

X - Data either not available or does not fill the criteria for classification

Data available to make classification

#### **SECTION 12 ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LL/EL/IL50	Not Available	Fish	>100mg/L	8
Rotair Xtra	LL/EL/IL50	Not Available	Algae or other aquatic plants	>100mg/L	8
	LL/EL/IL50	Not Available	Crustacea	>100mg/L	8
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>100mg/L	2
alkaryl amine	EC50	48	Crustacea	>0.34mg/L	2
	EC50	72	Algae or other aquatic plants	>0.008mg/L	2
	EL10	504	Crustacea	1.69mg/L	2
	NOEC	72	Algae or other aquatic plants	0.008mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
-(diisobutoxythiophosphorylsulfanyl)methylpropionic	LC50	96	Fish	38mg/L	2
acid	EC50	48	Crustacea	53mg/L	2

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EC50	72	Algae or other aquatic plants	79mg/L	2
EC100	48	Crustacea	100mg/L	2
NOEC	96	Fish	27mg/L	2

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

DO NOT discharge into sewer or waterways.

# 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

#### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

# 12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

# 12.5.Results of PBT and vPvB assessment

	P	В	Т
Relevant available data	Not Applicable	Not Applicable	Not Applicable
PBT Criteria fulfilled?	Not Applicable	Not Applicable	Not Applicable

# 12.6. Other adverse effects

No data available

# **SECTION 13 DISPOSAL CONSIDERATIONS**

# 13.1. Waste treatment methods

Sewage disposal options
Waste treatment options
Product / Packaging disposal

# **SECTION 14 TRANSPORT INFORMATION**

### **Labels Required**

Marine Pollutant	NO
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# Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable
14.2. UN proper shipping name	Not Applicable

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14.3. Transport hazard class(es)	Class Not Applicable Subrisk Not Applicable	
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user	Hazard identification (Kemler)  Classification code	Not Applicable  Not Applicable
	Hazard Label	Not Applicable
	Special provisions	Not Applicable
	Limited quantity	Not Applicable
	Tunnel Restriction Code	Not Applicable

# Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	ICAO/IATA Class Not Applicable		
	ICAO / IATA Subrisk Not Applicable		
	ERG Code Not Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions		Not Applicable
	Cargo Only Packing Instructions		Not Applicable
	Cargo Only Maximum Qty / Pack		Not Applicable
	Passenger and Cargo Packing Instructions		Not Applicable
	Passenger and Cargo Maximum Qty / Pack		Not Applicable
	Passenger and Cargo Limited Quantity Packing Instructions		Not Applicable
	Passenger and Cargo Limited Maximum Qty / Pack		Not Applicable

# Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	IMDG Class Not Applicable  IMDG Subrisk Not Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS Number Not Applicable Special provisions Not Applicable Limited Quantities Not Applicable		
	Limited Gedinates		

# Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable
14.2. UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	Not Applicable Not Applicable
14.4. Packing group	Not Applicable

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14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Classification code	Not Applicable	
	Special provisions	Not Applicable	
	Limited quantity	Not Applicable	
	Equipment required	Not Applicable	
	Fire cones number	Not Applicable	

# 14.7. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### **SECTION 15 REGULATORY INFORMATION**

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

#### ALKARYL AMINE IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU European Chemicals Agency (ECHA) Community Rolling Action Plan (CoRAP) List of Substances Europe EC Inventory Europe ECHA Registered Substances - Classification and Labelling -DSD-DPD Europe European Customs Inventory of Chemical Substances European Chemical Agency (ECHA) Classification & Labelling Inventory - European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) GESAMP/EHS Composite List - GESAMP Hazard Profiles IMO IBC Code Chapter 17: Summary of minimum requirements

IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk

### 3-(DIISOBUTOXYTHIOPHOSPHORYLSULFANYL)METHYLPROPIONIC ACID IS FOUND ON THE FOLLOWING REGULATORY LISTS

Europe EC Inventory

European Chemical Agency (ECHA) Classification & Labelling Inventory -Chemwatch Harmonised classification

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable -: Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2015/830; Regulation (EC) No 1272/2008 as updated through ATPs.

# 15.2. Chemical safety assessment

Chemwatch Harmonised classification

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

# **National Inventory Status**

National Inventory	Status	
Australia - AICS	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (3-(diisobutoxythiophosphorylsulfanyl)methylpropionic acid; alkaryl amine)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (3-(diisobutoxythiophosphorylsulfanyl)methylpropionic acid)	
Japan - ENCS	No (3-(diisobutoxythiophosphorylsulfanyl)methylpropionic acid; alkaryl amine)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (3-(diisobutoxythiophosphorylsulfanyl)methylpropionic acid)	
Vietnam - NCI	Yes	
Russia - ARIPS	Yes	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)	

#### **SECTION 16 OTHER INFORMATION**

Revision Date 30/10/2019	
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Issue Date: **30/10/2019**Print Date: **07/01/2020** 

Initial Date	19/04/2017
initiai Date	19/04/

#### Full text Risk and Hazard codes

H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H412	Harmful to aquatic life with long lasting effects.	

#### **SDS Version Summary**

Version	Issue Date	Sections Updated
12.1.1.1	03/10/2019	Ingredients, Supplier Information
13.1.1.1	30/10/2019	Ingredients

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit $_{\circ}$ 

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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