SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Revision date 22-Oct-2023 **Revision Number** 1

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

1.1. Product identifier

Product Code(s) 123692

Safety data sheet number 123692

Product Name AKCELA HY TRAN ULTRACTION

Pure substance/mixture Mixture

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

Recommended use Lubricant

1.3. Details of the supplier of the safety data sheet

Supplier
Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

Hazard statements
H412 - Harmful to aquatic life with long lasting effects
EUH208 - Contains 3-(DIISOBUTOXY-THIOPHOSPHORYLSULFANYL)-2-METHYL-PROPIONIC ACID ISOBUTYL ESTERTHIOPHOSPHATE ESTERACID, 3-[[BIS(2-METHYLPROPOXY)PHOSPHINOTHIOYL]THIO]-2-METHYL- May produce an

allergic reaction.

Precautionary statements
P273 - Avoid release to the environment
P501 - Dispose of contents/ container to an approved waste disposal plant

Unknown aquatic toxicity

2.3. Other hazards

Harmful to aquatic life.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
2,6 DI-TERT-BUTYL-P-CRESOL (BHT) 128-37-0	0 - 10%	204-881-4	-	Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400)	-	1	1
REACTION MASS OF OCTADEC-9-EN-1-YL AMMONIUM DI-N-HEXYL PHOSPHORODITHIOATE AND OCTADEC-9-EN-1-YL AMMONIUM MONO- AND DI-BUTYLPHOSPHATE -	0 - 10%	-	-	Aquatic Chronic 1 (H410) STOT RE 2 (H373) Aquatic Acute 1 (H400) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	-	-	-
3-(DIISOBUTOXY-THIOPHOSPHORYLSULFANYL)-2-METHYL-PROPIONIC ACID ISOBUTYL ESTERTHIOPHOSPHATE ESTERACID, 3-[[BIS(2-METHYLPROPOXY)PHOSPHINOTHIOYL]THIO]-2-METHYL- 268567-32-4	0 - 10%	434-070-2	-	Aquatic Chronic 3 (H412) Skin Sens. 1 (H317) Eye Dam. 1 (H318)	-	-	-

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove to fresh air. Get medical attention if symptoms occur.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.

Ingestion Rinse mouth.

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

Dermal Hives. Itching. Rashes. Prolonged contact may cause redness and irritation.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, CO2, alcohol-resistant foam or water spray.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Carbon oxides. Phosphorus oxides. Oxides of sulphur. Nitrogen oxides (NOx).

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

7.3. Specific end use(s)

Specific use(s)
See section 1 for more information.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	United Kingdom
2,6 DI-TERT-BUTYL-P-CRESOL (BHT) 128-37-0	TWA: 10 mg/m³ STEL: 30 mg/m³

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
2,6 DI-TERT-BUTYL-P-CRESOL (BHT) 128-37-0		0.5 mg/kg/day [4] [6]	1.76 mg/m³ [4] [6]
3-(DIISOBUTOXY-THIOPHOSPHORYLSULFANYL)-2-METHYL-PROPIONIC		1.25 mg/kg bw/day [4] [6]	4.4 mg/m³ [4] [6] 4.4 mg/m³ [4] [7]

Chemical name	Oral	Dermal	Inhalation
ACID ISOBUTYL ESTERTHIOPHOSPHATE ESTERACID, 3-[[BIS(2-METHYLPROPOXY)PHOSPHINOTHIOYL]THIO]-2-METHYL- 268567-32-4			

[4] Systemic health effects.
[6] Long term.
[7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
2,6 DI-TERT-BUTYL-P-CRESOL (BHT) 128-37-0	0.25 mg/kg/day [4] [6]	0.25 mg/kg/day [4] [6]	0.435 mg/m³ [4] [6]
3-(DIISOBUTOXY-THIOPHOSPHORYLSULFANYL)-2-METHYL-PROPIONIC ACID ISOBUTYL ESTERTHIOPHOSPHATE ESTERACID, 3-[[BIS(2-METHYLPROPOXY)PHOSPHINOTHIOYL]THIO]-2-METHYL- 268567-32-4	0.6 mg/kg bw/day [4] [6]		1.1 mg/m³ [4] [6] 1.1 mg/m³ [4] [7]

[4] Systemic health effects.
[6] Long term.
[7] Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
2,6 DI-TERT-BUTYL-P-CRESOL (BHT) 128-37-0	199 ng/L	1.99 µg/L	19.9 ng/L		
3-(DIISOBUTOXY-THIOPHOSPHORYLSULFANYL)-2-METHYL-PROPIONIC ACID ISOBUTYL ESTERTHIOPHOSPHATE ESTERACID, 3-[[BIS(2-METHYLPROPOXY)PHOSPHINOTHIOYL]THIO]-2-METHYL- 268567-32-4	0.072 mg/L	0.38 mg/L	0.0072 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
2,6 DI-TERT-BUTYL-P-CRES	0.45819 mg/kg	0.04582 mg/kg	0.17 mg/L	0.0539 mg/kg	0.17 mg/l

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
OL (BHT) 128-37-0					
3-(DIISOBUTOXY-THIOPHOSPHORYLSULFANYL)-2-METHYL-PROPIONIC ACID ISOBUTYL ESTERTHIOPHOSPHATE ESTERACID, 3-[[BIS(2-METHYLPROPOXY)PHOSPHINOTHIOYL]THIO]-2-METHYL- 268567-32-4	23 mg/kg sediment dw	2.3 mg/kg sediment dw	10 mg/L	4.54 mg/kg soil dw	

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

Hand protection Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Viscous liquid
Colour	No information available
Odour	No information available.
Odour threshold	No information available

Property	**Values**	**Remarks • Method**
Melting point / freezing point		No information available
Initial boiling point and boiling range	> 300	
Flammability		No information available
Flammability Limit in Air		No information available
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point	> 208	
Autoignition temperature		No information available
Decomposition temperature		No information available

pH		No information available
pH (as aqueous solution)		No information available
Kinematic viscosity	57.60 cSt	
Dynamic viscosity		No information available
Water solubility	Insoluble in water	
Solubility(ies)		No information available
Partition coefficient		No information available
Vapour pressure		No information available
Relative density	0.87	
Bulk density		
Liquid Density		
Relative vapour density		No information available
Particle characteristics		No information available
Particle Size		
Particle Size Distribution		
Explosive properties	No information available	
Oxidising properties	No information available	

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended storage conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat.

10.5. Incompatible materials

Incompatible materials Acids. Alkali. Oxidising agent.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx). Phosphorus oxides. Oxides of sulphur.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation May cause irritation.

Eye contact May cause temporary eye irritation.

Skin contact May cause allergic skin reaction.

Ingestion Gastrointestinal discomfort.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2,6 DI-TERT-BUTYL-P-CRESOL (BHT)	> 2930 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
3-(DIISOBUTOXY-THIOPHOSPHORYLSULFANYL)-2-METHYL-PROPIONIC ACID ISOBUTYL ESTERTHIOPHOSPHATE ESTERACID, 3-[[BIS(2-METHYLPROPOXY)PHOSPHINOTHIOYL]THIO]-2-METHYL-	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

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

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

Unknown aquatic toxicity

2,6 DI-TERT-BUTYL-P-CRESOL (BHT) (128-37-0)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	activated sludge	EC50	> 10000 mg/L	3 hours	
	Green Algae	EC50	> 0.4 mg/L	72 hours	
	Water flea	EC50	0.48 mg/L	48 hours	
	Brachydanio rerio		> 100 mg/L	96 hours	
	Green Algae	EC10	0.4 mg/L	72 hours	
	Medaka	NOEC	0.053 mg/L	42 days	
	Water flea	NOEC	0.023 mg/L	21 days	

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
3-(DIISOBUTOXY-THIOPHOSPHORYLSULFANYL)-2-METHYL-PROPIONIC ACID ISOBUTYL ESTERTHIOPHOSPHATE ESTERACID, 3-[[BIS(2-METHYLPROPOXY)PHOSPHINOTHIOYL]THIO]-2-METHYL-	-	LC50: =38mg/L (96h, Danio rerio)	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

Component Information

Chemical name	Partition coefficient
2,6 DI-TERT-BUTYL-P-CRESOL (BHT)	5.1
3-(DIISOBUTOXY-THIOPHOSPHORYLSULFANYL)-2-METHYL-PROPIONIC ACID ISOBUTYL ESTERTHIOPHOSPHATE ESTERACID, 3-[[BIS(2-METHYLPROPOXY)PHOSPHINOTHIOYL]THIO]-2-METHYL-	3.9

12.4. Mobility in soil

Mobility in soil Insoluble.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
2,6 DI-TERT-BUTYL-P-CRESOL (BHT)	The substance is not PBT / vPvB
3-(DIISOBUTOXY-THIOPHOSPHORYLSULFANYL)-2-METHYL-PROPIONIC ACID ISOBUTYL ESTERTHIOPHOSPHATE ESTERACID, 3-[[BIS(2-METHYLPROPOXY)PHOSPHINOTHIOYL]THIO]-2-METHYL-	The substance is not PBT / vPvB

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number Not regulated
14.2
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user Special Provisions None

IMDG

14.1 UN number or ID number Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user Special Provisions None
14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user Special Provisions None

ADR

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user Special Provisions None

SECTION 15: Regulatory information

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

National regulations

Authorisations and/or restrictions on use:
This product does not contain substances subject to authorisation (UK REACH - Annex XIV).
This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Persistent Organic Pollutants
Not applicable

Export Notification requirements
Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended)
Not applicable

The Ozone-Depleting Substances Regulations 2015
Not applicable

The Biocidal Products Regulations 2001 (as amended)
Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)
Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)
Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H373 - May cause damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

Legend
SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Revision Note ***Indicates updated data since last publication

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine’s PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Prepared By Jitendra Panchal

Revision date 22-Oct-2023

This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended) Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet