

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 02/07/2012. Revision date: 02/02/2023. Supersedes version of: 24/05/2022. Version: 4.3

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

1.1. Product identifier

Product form	Mixture
Product name	RIDEX PLUS ATF DSG
Product code	P41151-RID001
Product group	Blend

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

1.2.1. Relevant identified uses

Main use category	Industrial use, professional use, consumer use
Industrial/professional use specifications	Non-dispersive use Used in closed systems
Function or use category	Lubricants and additives

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet

RIDEX GmbH	Josef-Orlopp-Straße 55 10365 Berlin, Germany	www.ridex.eu info@ridex.de	+49 302 202 72 34
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1.4. Emergency telephone number

Emergency number : +32 70 245 245 Belgian Anti-Poison Centre, Bruynstraat 1, 1120 Brussels

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals - 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD 2090 Msida	+356 2545 6508	
Sweden	Giftinformationscentralen	Box 60 500 171 76 Stockholm	112 – begär Giftinformation +46 10 456 6700 (Från utlandet)	

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SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified.

Adverse physicochemical, human health, and environmental effects

No additional information available.

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

EUH-statements	EUH208 - Contains borate ester. May produce an allergic reaction. EUH210 - Safety data sheet available on request.
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2.3. Other hazardsContains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.

The mixture does not contain substance(s) included in the list made in accordance with Article 59(1) of REACH for having endocrine-disrupting properties, or is not identified as having endocrine-disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

SECTION 3: Composition/information on ingredients**3.1. Substances**

Not applicable.

3.2. Mixtures

Comments	The mineral oils in the product contain < 3% DMSO extract (IP 346)
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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Isooctadecanoic acid, reaction products with tetraethylenepentamine	EC-No.: 701-204-9 REACH-No.: 01-2119960832-33	1-1.49	Skin Irrit. 2, H315 Eye Irrit. 2, H319
C14-18 alpha-olefin epoxide, reaction products with boric acid	EC-No.: 939-580-3 REACH-No.: 01-2119976364-28	0.1-0.49	Skin Sens. 1B, H317

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	CAS-No.: 1218787-32-6 EC-No.: 620-540-6 REACH-No.: 01-2119510877-33	0.05–0.24	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see Section 16.

SECTION 4: First-aid measures

4.1. Description of first-aid measures

First-aid measures after inhalation	Not expected to require first-aid measures.
First-aid measures after skin contact	Wash skin with mild soap and water.
First-aid measures after eye contact	In case of eye contact, immediately rinse with clean water for 10-15 minutes.
First-aid measures after ingestion	Do not induce vomiting. Rinse mouth. Seek immediate medical advice/attention.

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

Symptoms/effects after inhalation	Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

No additional information available.

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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media	Water fog, foam, powder, dry chemical product.
Unsuitable extinguishing media	Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available.

5.3. Advice for firefighters

Precautionary fire measures	Exercise caution when fighting any chemical fire.
Firefighting instructions	Use water spray or fog for cooling exposed containers.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment, and emergency procedures****6.1.1. For non-emergency personnel**

Protective equipment	Wear suitable protective clothing and gloves.
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6.1.2. For emergency responders

Protective equipment	Wear suitable protective clothing and gloves.
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6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	Impound and recover large spill by mixing it with inert granular solids.
Methods for cleaning up	Detergent. Take up liquid spill into absorbent material, sand, saw dust, or kieselguhr.
Other information	Spill area may be slippery. Use suitable disposal containers.

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6.4. Reference to other sections

No additional information available.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Precautions for safe handling	Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.
Handling temperature	< 40°C
Hygiene measures	Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage temperature	≤ 40°C
Storage area	Store in a dry, cool, well-ventilated area.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.1.1. National occupational exposure and biological limit values**

RIDEX PLUS ATF DSG	
Belgium - Occupational Exposure Limits	
Local name	Huiles minérales (brouillards) # Olie (minerale-; nevel)
OEL TWA	5 mg/m ³
OEL STEL	10 mg/m ³
Regulatory reference	Koninklijk besluit/Arrêté royal 02/09/2018

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8.1.2. Recommended monitoring procedures

No additional information available.

8.1.3. Air contaminants formed

No additional information available.

8.1.4. DNEL and PNEC

No additional information available.

8.1.5. Control banding

No additional information available.

8.2. Exposure controls
8.2.1. Appropriate engineering controls

No additional information available.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses and gloves.

Personal protective equipment symbol(s):


8.2.2.1. Eye and face protection

No additional information available.

8.2.2.2. Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use.

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	minimum (> 480 min, long-term exposure)	> 0.35		

8.2.2.3. Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

8.2.2.4. Thermal hazards

No additional information available.

8.2.3. Environmental exposure controls

No additional information available.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Brown
Appearance	Oily liquid
Odour	Characteristic
Odour threshold	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flammability	Not available
Explosive limits	Not available
Lower explosion limit	Not available
Upper explosion limit	Not available
Flash point	> 180°C at ASTM D92
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	Not available
Viscosity, kinematic	38 mm ² /s at 40°C
Solubility	Slightly soluble, the product remains on the water surface
Partition coefficient n-octanol/water (Log K _{ow})	Not available
Vapour pressure	Not available
Vapour pressure at 50°C	Not available
Density	849 kg/m ³ at 15°C
Relative density	Not available
Relative vapour density at 20°C	Not available
Particle characteristics	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available.

9.2.2. Other safety characteristics

No additional information available.

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SECTION 10: Stability and reactivity**10.1. Reactivity**

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Strong oxidisers, acids, bases.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No. 1272/2008**

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

Isooctadecanoic acid, reaction products with tetraethylenepentamine	
Oral LD ₅₀ (rat)	> 5000 mg/kg
Dermal LD ₅₀ (rabbit)	> 2000 mg/kg

Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified

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Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified

Isooctadecanoic acid, reaction products with tetraethylenepentamine

NOAEL (oral, rat)	> 1000 mg/kg body weight OECD 421
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STOT-repeated exposure	Not classified
Aspiration hazard	Not classified

RIDEX PLUS ATF DSG

Viscosity, kinematic	38 mm ² /s at 40°C
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11.2. Information on other hazards

No additional information available.

SECTION 12: Ecological information
12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Not classified

Isooctadecanoic acid, reaction products with tetraethylenepentamine

LC ₅₀ - fish [1]	> 1000 mg/l OECD 203
EC ₅₀ - crustacea [1]	> 1000 mg/l OECD 202

C14-18 alpha-olefin epoxide, reaction products with boric acid

LC ₅₀ - fish [1]	> 100 mg/l (Oncorhynchus mykiss)
EC ₅₀ - crustacea [1]	> 100 mg/l (Daphnia magna)
EC ₅₀ 72 h - algae [1]	> 100 mg/l (Selenastrum capricornutum)
Acute NOEC	32 mg/l at 2 DY (Daphnia magna)

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2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

LC ₅₀ - fish [1]	0.1 mg/l Brachydanio rerio
EC ₅₀ - crustacea [1]	0.043 mg/l Daphnia magna
EC ₅₀ 72 h - algae [1]	0.0053 mg/l Pseudokirchneriella subcapitata
Chronic NOEC (algae)	0.0156 mg/l at 3 DY (Pseudokirchneriella subcapitata)

12.2. Persistence and degradability
RIDEX PLUS ATF DSG

Persistence and degradability	Not soluble in water, so only minimally biodegradable.
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Isooctadecanoic acid, reaction products with tetraethylenepentamine

Persistence and degradability	Readily biodegradable.
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2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

BOD (% of ThOD)	63% ThOD
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12.3. Bioaccumulative potential
C14-18 alpha-olefin epoxide, reaction products with boric acid

Partition coefficient n-octanol/water (Log K _{ow})	9.4 Calc.
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2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

BCF - fish [1]	110.2 mg/kg
Partition coefficient n-octanol/water (Log K _{ow})	3.6

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Endocrine-disrupting properties

No additional information available.

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12.7. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations
13.1. Waste treatment methods

Additional information	Dispose in a safe manner in accordance with local/national regulations.
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SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

14.5. Environmental hazards

Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available

14.6. Special precautions for user

Overland transport	Transport by sea	Air transport	Inland waterway transport	Rail transport
No data available	No data available	No data available	No data available	No data available

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14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions).

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List).

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List.

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals).

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants).

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer).

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors).

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances).

15.1.2. National regulations

Germany	
Water hazard class (WGK)	WGK 2, Significantly hazardous to water (classification according to AwSV, Annex 1).
Storage class (LGK, TRGS 510)	LGK 10-13 - Other combustible and non-combustible substances.
Hazardous Incident Ordinance (12. BImSchV)	Is not subject of the Hazardous Incident Ordinance (12. BImSchV).
Netherlands	
SZW-lijst van kankerverwekkende stoffen	None of the components are listed
SZW-lijst van mutagene stoffen	None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	None of the components are listed

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Sweden	
Swedish product registration number	680531-1
Switzerland	
Storage class (LK)	LK 10/12 - Liquids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier.

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Removed	
15.1	Water hazard class (WGK)	Modified	
15.1	Storage class (LGK, TRGS 510)	Added	

Abbreviations and acronyms:	
ACGIH	American Conference of Governmental Industrial Hygienists
TWA	Time Weighted Average
TLV	Threshold Limit Value
ASTM	American Society for Testing and Materials
ADR	Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
ADNR	Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
IMDG	International Maritime Dangerous Goods
ICAO	International Civil Aviation Organization
IATA	International Air Transport Association
STEL	Short Term Exposure Limit
LD ₅₀	Median Lethal Dose
ATE	Acute Toxicity Estimate

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Abbreviations and acronyms:

LC ₅₀	Median Lethal Concentration
EC ₅₀	Median Effective Concentration

Other information:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any guarantee, express or implied, regarding its correctness. The conditions or methods of handling, storage, use, or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4.
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1.
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1.
EUH208	Contains borate ester. May produce an allergic reaction.
EUH210	Safety data sheet available on request.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long-lasting effects.
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C.
Skin Irrit. 2	Skin corrosion/irritation, Category 2.
Skin Sens. 1B	Skin sensitisation, Category 1B.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.