

REPROXAL 13 XA NEU

Version: 1.10

Revision Date 12.09.2016

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Trade name	REPROXAL 13 XA NEU
REACH No.	01-2119985180-37-0000
Substance name (REACH / CLP)	Reaction product of adipic acid and sebacic acid and isotridecan-1-ol

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

Use	Industrial use lubricant or lubricant additive raw material for lubricants and lubricant additives
Uses advised against	

1.3 Details of the supplier of the safety data sheet

Company	SASOL Germany GmbH Anckelmannsplatz 1 20537 Hamburg
Information (Product safety):	Telephone: + 49 (0) 23 65 - 49 47 05 Telefax: + 49 (0) 23 65 - 49 92 40
E-mail address	msds-info.germany@de.sasol.com

1.4 Emergency telephone number

Emergency telephone number	+ 49 (0) 28 41- 49 24 08
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SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

No hazards to be specially mentioned.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a substance in the meaning of regulation (EC) 1907/2006.

CHEMICAL CHARACTERIZATION

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Reaction product of adipic acid and sebacic acid and isotridecan-1-ol

component type: Active ingredient**EC-No.:** 939-783-7**Index-No.:****CAS-No.:****REACH No.:** 01-2119985180-37-0000**Substance name (REACH / CLP):** Reaction product of adipic acid and sebacic acid and isotridecan-1-ol**COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES**

No hazardous ingredients

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

General advice	Take off all contaminated clothing immediately.
If inhaled	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
In case of skin contact	Wash off immediately with plenty of water.
In case of eye contact	Immediately flush eye(s) with plenty of water.
If swallowed	Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed	Symptoms: No information available. Risks: No information available.
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4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed	Treatment: No information available.
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SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media	Water spray, Alcohol-resistant foam, Carbon dioxide (CO ₂)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.
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5.3 Advice for firefighters

Special protective equipment for firefighters	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Further information	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Danger of slipping after spill or leakage.

6.2 Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
Do not allow material to contaminate ground water system.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling not required under normal use

Advice on protection against fire and explosion No special protective measures against fire required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Specific use(s) This information is not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters**COMPONENTS WITH WORKPLACE CONTROL PARAMETERS****National occupational exposure limits**

No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

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DERIVED NO EFFECT LEVEL (DNEL)

Substance name: Reaction product of adipic acid and sebacic acid and isotridecan-1-ol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects	3,4 mg/kg	The value is based on body weight and day.
	Inhalation, long-term exposure - systemic effects	24 mg/m3	
	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - local effects		Not relevant / not applicable
Consumers	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Oral, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects	1,7 mg/kg	The value is based on body weight and day.
	Inhalation, long-term exposure - systemic effects	10,44 mg/m3	
	Oral, long-term exposure - systemic effects	1,77 mg/kg	The value is based on body weight and day.
dermal, long-term exposure - local effects		Not relevant / not applicable	
Inhalation, long-term exposure - local effects		Not relevant / not applicable	

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PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: Reaction product of adipic acid and sebacic acid and isotridecan-1-ol		
Environmental Compartment	Value	Note
Fresh water	0,1 mg/l	
Marine water	0,01 mg/l	
intermittent release	1 mg/l	
treatment plant	48 mg/l	
Fresh water sediment	121230,36 mg/l	based on dry weight
Marine sediment	12123,036 mg/l	based on dry weight
Soil	24241,8115 mg/l	based on dry weight
food		Not relevant / not applicable

8.2 Exposure controls

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection

No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.

Hand protection

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., 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., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

gloves suitable for permanent contact:

Material: Nitrile rubber/nitrile latex
Break through time: >= 480 min
Layer thickness: 0,35 mm

Material: butyl-rubber
Break through time: >= 480 min
Layer thickness: 0,5 mm

Eye protection

Tightly fitting safety goggles

Hygiene measures

Avoid contact with the skin and the eyes.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice

Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
Do not allow material to contaminate ground water system.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state	liquid; 20 °C; 1.013 hPa
Form	liquid
Colour	yellowish
Odour	characteristic
Odour Threshold	not relevant for classification
pH	Not applicable, Justification:, insoluble
Melting point/range	-66 °C; 1.022 hPa
Boiling point/boiling range	ca. 360 °C; 1.019 hPa; Decomposes below the boiling point.; ASTM D 1020-94
Flash Point	241 °C; 1.021 hPa; Non-equilibrium method; DIN ISO 2592
Evaporation rate	not relevant for classification
Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	Not relevant / not applicable Justification: Product is not classified as highly or extremely flammable.
Upper explosion limit	Not relevant / not applicable Justification: Product is not classified as highly or extremely flammable.
Vapour pressure	< 0,001 hPa; 25 °C
Relative vapour density	> 15
Density	0,9058 g/cm ³ ; 20 °C; ASTM D 7042
Water solubility	< 0,001 g/l;
Partition coefficient: n-octanol/water	log Pow: 13
Ignition temperature	416 °C; 1.021 hPa; DIN 51794
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	52,1 mPas; 20 °C; ASTM D 7042
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	not expected based on structure and functional groups
Molar mass	532 g/mol

9.2 Other data

None known.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity****Note**

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.2 Chemical stability

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Note	No decomposition if stored and applied as directed.
10.3 Possibility of hazardous reactions	
Hazardous reactions	None known.
10.4 Conditions to avoid	
Conditions to avoid	None known.
10.5 Incompatible materials to avoid	
Materials to avoid	None known.;
10.6 Hazardous decomposition products	
Hazardous decomposition products	None known.
Thermal decomposition	No decomposition if used as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects**Acute toxicity**

Acute oral toxicity	Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 401 Symptoms: Diarrhoea, Fatigue, Slippery skin surface (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Diisotridecyl adipate Based on available data, the classification criteria are not met.
Acute inhalation toxicity	Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: Negligible or unlikely exposure pathways (literature value)
Acute dermal toxicity	Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: LD50 Rabbit: > 5.000 mg/kg; OECD Test Guideline 402 Symptoms: Diarrhoea, Fatigue (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Diisotridecyl adipate

Skin corrosion/irritation

Skin irritation	Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: Rabbit: not irritating; OECD Test Guideline 404 (literature value) Based on available data, the classification criteria are not met. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Diisotridecyl adipate
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Serious eye damage/eye irritation

Eye irritation	Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: Rabbit: not irritating; OECD Test Guideline 405 (literature value) Based on available data, the classification criteria are not met.
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The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: Diisotridecyl adipate

Respiratory or skin sensitisation

Sensitisation

Reaction product of adipic acid and sebacic acid and isotridecan-1-ol:
human: not sensitizing
Based on available data, the classification criteria are not met.
(literature value)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: Diisotridecyl adipate

Germ cell mutagenicity

Genotoxicity in vitro

Reaction product of adipic acid and sebacic acid and isotridecan-1-ol:
In vitro tests did not show mutagenic effects
(literature value)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Genotoxicity in vivo

Reaction product of adipic acid and sebacic acid and isotridecan-1-ol:
The study is not necessary.
Justification:
In vitro tests did not show mutagenic effects
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Remarks

Reaction product of adipic acid and sebacic acid and isotridecan-1-ol:
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Based on available data, the classification criteria are not met.

Carcinogenicity

Carcinogenicity

Reaction product of adipic acid and sebacic acid and isotridecan-1-ol:
The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential.
(literature value)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Remarks

Reaction product of adipic acid and sebacic acid and isotridecan-1-ol:
Based on available data, the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity

Reaction product of adipic acid and sebacic acid and isotridecan-1-ol:
Rat; Oral
NOAEL ((parents)): 170 mg/kg (based on body weight and day)
NOAEL (F1): 170 mg/kg (based on body weight and day); OECD Test Guideline 415
Based on available data, the classification criteria are not met.
(literature value)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: Bis(2-Ethylhexyl)adipate

RemarksReproductive toxicity

Reaction product of adipic acid and sebacic acid and isotridecan-1-ol:
Based on available data, the classification criteria are not met.

Teratogenicity

Reaction product of adipic acid and sebacic acid and isotridecan-1-ol:
Rat
NOAEL: 170 mg/kg (based on body weight and day)
NOAEL (pregnant female): 170 mg/kg (based on body weight and day); OECD Test Guideline 414
Based on available data, the classification criteria are not met.
(literature value)
The data are derived from the evaluations or test results achieved with similar

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	products (conclusion by analogy). Test substance: Bis(2-Ethylhexyl)adipate
Remarks-Teratogenicity	Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: Based on available data, the classification criteria are not met.
STOT - single exposure	
Remarks	Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	
Remarks	Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: Mouse; Oral; 91 d NOAEL: 200 mg/kg (based on body weight and day); OECD Test Guideline 408 Symptoms: reduced body weight gain (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Bis(2-Ethylhexyl)adipate
Aspiration hazard	
Aspiration toxicity	Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: Not applicable
Toxicological information	Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: Toxicokinetics The substance is poorly absorbed via skin. extensive and rapid metabolisation The substance is metabolised and excreted.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: LL50 (96 h) Poecilia reticulata (guppy): > 100 mg/l ; static test; OECD Test Guideline 203 The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Diisotridecyl adipate
Toxicity to daphnia and other aquatic invertebrates	Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: EL50 (48 h) Daphnia magna (Water flea): > 100 mg/l ; static test; OECD Test Guideline 202 The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Diisotridecyl adipate
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: NOEC (21 d) Daphnia magna (Water flea); reproduction rate; semi-static test; OECD Test Guideline 202, part 2; In the range of water solubility not toxic under test conditions. (literature value) The data are derived from the evaluations or test results achieved with similar

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	<p>products (conclusion by analogy). Test substance: Bis(2-Ethylhexyl)adipate</p> <p>Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: (21 d) Daphnia magna (Water flea); reproduction rate; semi-static test; OECD Test Guideline 211; (literature value) In the range of water solubility not toxic under test conditions. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: diisotridecyl dodecanedioate</p>
Toxicity to aquatic plants	<p>Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: ErL50 (72 h) Desmodesmus subspicatus (Scenedesmus subspicatus): > 100 mg/l ; Growth rate; static test; OECD Test Guideline 201; The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Diisotridecyl adipate</p>
Toxicity to bacteria	<p>Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: NOEC (3 h) activated sludge: > 350 mg/l (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Bis(2-Ethylhexyl)adipate</p>
Toxicity to soil dwelling organisms	<p>Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: NOEC (14 d) Eisenia fetida (earthworms): 550 mg/kg; mortality; Directive 87/302/EEC, part C, p. 95 (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Bis(2-Ethylhexyl)adipate</p>
Toxicity to terrestrial flora	<p>Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: The study is not necessary. Justification: Readily biodegradable</p>
Toxicity for other terrestrial non-mammalian fauna	<p>Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: The study is not necessary. Justification: Readily biodegradable</p>
12.2 Persistence and degradability	
Biodegradability	<p>Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: Readily biodegradable; > 60 %; 28 d; aerobic; OECD Test Guideline 301B</p>
12.3 Bioaccumulative potential	
Bioaccumulation	<p>Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: Bioconcentration factor (BCF): 14,8; calculated Does not bioaccumulate. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Diisotridecyl adipate</p>
12.4 Mobility in soil	
Mobility	<p>Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: Adsorption/Soil; log Koc: 7,08; calculated immobile The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).</p>
12.5 Results of PBT and vPvB assessment	
Results of PBT assessment	<p>Reaction product of adipic acid and sebacic acid and isotridecan-1-ol: Based on available data, the classification criteria are not met.</p>

12.6 Other adverse effects

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General adviceReaction product of adipic acid and sebacic acid and isotridecan-1-ol:
None known.**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product**

Following pre-treatment and observing the regulations for hazardous wastes, it must be taken to a permitted hazardous wastes landfill or hazardous wastes incinerator.

Contaminated packaging

Dispose of as unused product.

waste code of the European Union: EWC

A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose.

SECTION 14: TRANSPORT INFORMATION**14.1 UN number**

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.2 Proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.3 Transport hazard class

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.4 Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.5 Environmental hazards

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ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks No information available.

SECTION 15: REGULATORY INFORMATION

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

NATIONAL/OTHER REGULATIONS

Legislation on the control of major-accident hazards involving dangerous substances	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. list entry in the directive:: Not applicable
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NOTIFICATION STATUS

Switzerland. Consolidated Inventory	CH INV	not listed (product or constituents are not listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	not listed (product or constituents are not listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	not listed (product or constituents are not listed)
Japan. Kashin-Hou Law List	ENCS (JP)	not listed (product or constituents are not listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	not listed (product or constituents are not listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	not listed (product or constituents are not listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	not listed (product or constituents are not listed)
China. Inventory of Existing Chemical Substances	INV (CN)	not listed (product or constituents are not listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment

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Reaction product of adipic acid and sebacic acid and isotridecan-1-ol

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: OTHER INFORMATION

Safety datasheet sections which have been updated:

8. Exposure controls/personal protection

Further information:

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. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative
WGK	Wassergefährdungsklasse

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Annex

Attachments to the safety data sheet and/or lists of the identified uses for the listed substances can be downloaded using the internet links below.

Reaction product of adipic acid and sebacic acid and isotridecan-1-ol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000017495_EN_01.pdf
