Revision: 21.04.2023

Printing date 05.07.2023

Version number 15 (replaces version 14)

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

- · 1.1 Product identifier
- · Creation date version 1 24.01.2020
- · Trade name NEUKADUR MultiCast 12 TZ 12
- · Article number: P2371
- · Utilization of the substance of the formulation: Polyol for Polyurethanes
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

ALTROPOL KUNSTSTOFF GmbH

Rudolf-Diesel-Str 9 - 13 D-23617 Stockelsdorf Tel. +49 (0)451-49960-0 Fax. +49 (0)451-49960-20 e-mail: info@altropol.de

- · Further information obtainable from: environment protection department
- · 1.4 Emergency telephone number:

During normal opening times (7 am - 5 pm)

phone: +49 (0)451-49960-0

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

# SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



Eye Irrit. 2 H319 Causes serious eye irritation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



GHS07

- · Signal word Warning
- $\cdot \textit{Hazard statements}$

H319 Causes serious eye irritation.

· Precautionary statements

P264

Wash thoroughly after handling.

P280

Wear eye protection / face protection.

(Contd. on page 2)

Version number 15 (replaces version 14)

#### Trade name NEUKADUR MultiCast 12 TZ 12

(Contd. of page 1)

Revision: 21.04.2023

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

*P337+P313*• **2.3 Other hazards** 

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable. · **vPvB**: Not applicable.

# SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 28553-12-0 EINECS: 249-079-5 Reg.nr.: 01-2119430798-28- xxxx	di-"isononyl" phthalate substance with a Community workplace exposure limit	10-25%
CAS: 25322-69-4 Reg.nr.: 01-2119457556-29- xxxx	Polypropylenglykol Acute Tox. 4, H302	10-25%
CAS: 102-60-3 EINECS: 203-041-4 Reg.nr.: 01-2119552434-41- xxxx	1,1',1"',-ethylenedinitrilotetrapropan-2-ol  Eye Irrit. 2, H319	10-25%
CAS: 8002-13-9 EINECS: 232-299-0	Rape oil substance with a Community workplace exposure limit	5-10%
EC number: 918-973-3 Reg.nr.: 01-2119458871-30	Kohlenwasserstoffe, C13-C16, Isoalkane, Cycloalkane, <2% Aromaten  Asp. Tox. 1, H304	1-2.5%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

# SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

*If swallowed, rinse mouth with water (only if the person is conscious).* 

Do not induce vomiting; call for medical help immediately.

A person vomiting while laying on their back should be turned onto their side. Call a doctor immediately.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)

Version number 15 (replaces version 14)

#### Trade name NEUKADUR MultiCast 12 TZ 12

(Contd. of page 2)

Revision: 21.04.2023

· 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

# SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture

*In case of fire, the following can be released:* 

toxic fume

carbon dioxide

Carbon monoxide (CO)

Nitrogen oxides (NOx)

- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

# SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective equipment. Keep unprotected people away.

- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Inform personnel of the affiliated with the product hazards and risks

Ensure good ventilation / exhaustion at the workplace.

Use and open container with care.

· Information about fire - and explosion protection:

Protect from heat.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

(Contd. on page 4)

Version number 15 (replaces version 14)

#### Trade name NEUKADUR MultiCast 12 TZ 12

(Contd. of page 3)

Revision: 21.04.2023

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Use only receptacles specifically permitted for this substance/product.

Prevent any seepage into the ground.

Store only in the original receptacle.

· Information about storage in one common storage facility:

Store away from oxidising agents.

Store away from water.

Store away from foodstuffs.

Do not store together with oxidising and acidic materials as well as heavy-metal compounds.

· Further information about storage conditions:

Store in dry conditions.

Protect from frost.

- · Storage class: 10
- · 7.3 Denomination of Origin Made in Germany
- · Processing information Homogenize content before use
- · General remark For processing instructions see data sheet

# SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredient	s with limi	t values that require mon	nitoring at the workplace:
28553-12-	0 di-''isono	onyl'' phthalate	
WEL (Gree	at Britain)	Long-term value: 5 mg/n	$n^3$
8002-13-9	Rape oil		
AGW (Ger	(Germany) Long-term value: 5 A mg. 4(II);DFG, Y		$g/m^3$
· DNELs			
28553-12-	0 di-''ison	onyl'' phthalate	
Oral	DNEL Lo	ng-term - systemic effects	4.4 mg/kg bw/day (General population)
	DNEL Ch	ronic - systemic effects	4.4 mg/kg bw/d (workers)
Dermal	DNEL Lo	ng-term - systemic effects	220 mg/kg bw/day (General population)
			366 mg/kg bw/day (workers)
	DNEL chi	ronic - systemic effects	220 mg/kg bw/d (General population)
			366 mg/kg bw/d (workers)
Inhalative	DNEL Lo	ng-term - systemic effects	15.3 mg/m³ (General population)
	DNEL sys	temic effects - short term	51.72 mg/m³ (workers)
	DNEL chi	ronic - systemic effects	15.3 mg/m³ (General population)
			51.72 mg/m³ (workers)
102-60-3 1	,1',1'',1'''	ethylenedinitrilotetrapro	pan-2-ol
Oral	DNEL Lo	ng-term - systemic effects	2.5 mg/kg (General population)
Dermal	DNEL Lo	ng-term - systemic effects	2.5 mg/kg (General population)
			4.2 mg/kg (workers)
Inhalative	DNEL Lo	ng-term - systemic effects	8.7 mg/m³ (General population)

(Contd. on page 5)

Revision: 21.04.2023

Printing date 05.07.2023

Version number 15 (replaces version 14)

#### Trade name NEUKADUR MultiCast 12 TZ 12

	(Contd. of page 4	
	29.4 mg/m³ (workers)	
·PNECs		
28553-12-0 di-''isononyl'' p	phthalate	
PNEC soil	30 mg/kg (soil ( Boden))	
PNEC Secondary poisoning	150 mg/kg (food)	
102-60-3 1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol		
PNEC STP	70 mg/L (sewage plant)	
PNEC sediment	0.0193 mg/kg (marine water)	
	0.193 mg/kg (freshwater- sediment)	
PNEC soil	0.0183 mg/kg (soil ( Boden))	
PNEC	0.085 mg/l (freshwater)	
	0.0085 mg/l (marine water)	
	1.51 mg/l (intermittent releases)	

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- · Respiratory protection: Not necessary if room is well-ventilated.
- · Hand protection

Preventive skin protection (3-point program) required

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product 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.

#### · Penetration time of glove material

Suitable materials for protective gloves, EN 374-3:

Polychloroprene - CR: thickness  $\geq 0.5$  mm, breakthrough time  $\geq 480$  min.

NBR - NBR: thickness > = 0,35 mm, Breakthrough time > = 480 min.

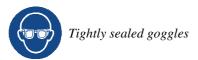
Butyl rubber - IIR: thickness  $\geq 0.5$  mm, breakthrough time  $\geq 480$  min.

Fluorine rubber - FKM: thickness> = 0.4 mm; breakthrough time> = 480 min.

Recommendation: Dispose of contaminated gloves ..

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### · Eye/face protection



Version number 15 (replaces version 14)

Whitish

Characteristic

Not determined.

Undetermined.

Undetermined.

Not applicable.

Not determined.

Not determined. > 100 °C

Not determined.

Not determined.

Not determined.

Not determined.

Not determined.

Not determined. Not determined.

Product is not selfigniting.

Product does not present an explosion hazard.

160 mPas

Insoluble.

 $0.95 \ g/cm^3$ 

Fluid

8.3 %

32.4 g/l

#### Trade name NEUKADUR MultiCast 12 TZ 12

· **Body protection:** Protective work clothing

(Contd. of page 5)

Revision: 21.04.2023

# SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour:

· Odour:

· Odour threshold:

· Melting point/freezing point:

· Boiling point or initial boiling point and

boiling range

· Flammability

· Lower and upper explosion limit

· Lower:

· Upper:

· Flash point:

· Decomposition temperature:

 $\cdot pH$ 

· Viscosity:

· Kinematic viscosity

· Dynamic at 20 °C:

·Solubility

· water:

· Partition coefficient n-octanol/water (log

value)

· Vapour pressure:

· Density and/or relative density

· Density at 20 °C:

· Relative density

· Vapour density

· 9.2 Other information

· Appearance:

· Form:

· Important information on protection of health

and environment, and on safety.

· Ignition temperature:

· Explosive properties:

· Solvent content:

· Organic solvents:

· **VOC** (**EC**)

· Change in condition

· Evaporation rate

Not determined.

· Information with regard to physical hazard

classes

· Explosives · Flammable gases

· Aerosols · Oxidising gases Void

Void

Void Void

(Contd. on page 7)

Revision: 21.04.2023

Printing date 05.07.2023

Version number 15 (replaces version 14)

#### Trade name NEUKADUR MultiCast 12 TZ 12

		(Contd. of page 6
· Gases under pressure	Void	
· Flammable liquids	Void	
· Flammable solids	Void	
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
· Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

# SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions

Violent reaction with concentrated alkali and oxidising agents.

- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:

Incompatible with oxidizing agents, acids

water, alcohol, amine, base and acid

• 10.6 Hazardous decomposition products: if handled accordingly no products of decomposition.

# SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	· LD/LC50 values relevant for classification:		
28553-12-	0 di-''ison	onyl'' phthalate	
Oral	LD50	>10,000 mg/kg (rat) (OECD 401 Acute Oral Toxicity)	
Dermal	LD50	>3,160 mg/kg (rabbit)	
25322-69-	4 Polyprop	pylenglykol	
Oral	LD50	2,000 mg/kg (rat)	
Dermal	LD50	>10,000 mg/kg (rabbit)	
102-60-3	102-60-3 1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol		
Oral	LD50	>2,000-<5,000 mg/kg (rat) (OECD 401 Acute Oral Toxicity)	
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402 Acute Dermal Toxicity)	
Kohlenwa	sserstoffe,	C13-C16, Isoalkane, Cycloalkane, <2% Aromaten	
Oral	LD50	5,000 mg/kg (rat) (OECD 401 Acute Oral Toxicity)	
Dermal	LD50	2,000 mg/kg (rabbit) (OECD 402 Acute Dermal Toxicity)	

(Contd. on page 8)

Version number 15 (replaces version 14)

#### Trade name NEUKADUR MultiCast 12 TZ 12

(Contd. of page 7)

Revision: 21.04.2023

## Inhalative LC50/4 h | 5 mg/l (rat) (OECD 403 Acute Inhalation Toxicity)

- · Skin corrosion/irritation slightly irritating (OECD method 404), does not require labeling
- · Serious eye damage/irritation sligthly irritant, labelling not required (analogy conclusion)
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

# SECTION 12: Ecological information

#### · 12.1 Toxicity

Aquatic toxic 28553-12-0 a	ity: li-''isononyl'' phthalate
LC0(96h)	>100 mg/l (Brachydanio rerio)
LC50 (96 h)	>100 mg/l (Brachydanio rerio)
EC50 (48 h)	>74  mg/l (D)
EC50 (24h)	>74 mg/l (Daphnia Magna)
EC50 (0,5h)	>83.9 mg/l (activated sludge)
NOEC/72h	88 mg/l (Scenedesmus subspicatus)
NOEC/21d	≥100 mg/l (Daphnia Magna) (OECD 202 Daphnia sp. Acute Immobilisation Tes
ErC50 (72h)	>88 mg/l (Scenedesmus subspicatus)
25322-69-41	Polypropylenglykol
LC50 (96 h)	>100 mg/l (Oncorhynchus mykiss)
EC50 (48 h)	>100 mg/l (Daphnia Magna)
ErC50 (72h)	>100 mg/l (Scenedesmus subspicatus)
102-60-3 1,1	',1'',1'''-ethylenedinitrilotetrapropan-2-ol
LC50 (96 h)	>100 mg/l (Leuciscus)
EC50 (48 h)	>100 mg/l (Daphnia Magna)
EC50 (72 h)	>100 mg/l (Desmodesmus subspicatus)
EC20(0,5h)	>1,000 mg/l (activated sludge)
Kohlenwasse	rstoffe, C13-C16, Isoalkane, Cycloalkane, <2% Aromaten
EL50 (72h)	>1,000 mg/l (A) (OECD 201 Alga, Growth Inhibition Test)
EL50 (48h)	>1,000 mg/l (Daphnia Magna) (OECD 202 Daphnia sp. Acute Immobilisation Test)
LL50(96h)	>1,000 mg/l (F) (OECD 203 Fish, Acute Toxicity Test)

· 12.2 Persistence and degradability No further relevant information available.

(Contd. on page 9)

Version number 15 (replaces version 14)

#### Trade name NEUKADUR MultiCast 12 TZ 12

(Contd. of page 8)

Revision: 21.04.2023

- · Other information: Elimination by adsorption onto activated sludge
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

# SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Dispose in accordance with applicable international, national and local laws, ordinances and statutes. For disposal within the EC, the appropriate waste code according to the European Waste Catalogue (EWC) should be used.

- · Uncleaned packaging:
- · Recommendation:

The empty containers may only be disposed of after the residues stuck to the container walls have been removed.

Disposal according to official regulations.

Void
Void
Void
Not applicable.
Not applicable.
)

(Contd. on page 10)

Version number 15 (replaces version 14)

Revision: 21.04.2023

#### Trade name NEUKADUR MultiCast 12 TZ 12

(Contd. of page 9)

· UN "Model Regulation":

Void

# SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



- · Signal word Warning
- · Hazard statements

H319 Causes serious eye irritation.

· Precautionary statements

P264

Wash thoroughly after handling.

P280

Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337+P313

If eye irritation persists: Get medical advice/attention.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	1-2.5

- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

#### · Recommended restriction of use

The information in this safety data sheet corresponds to the best of our knowledge at the time of the revision. The information should give you clues for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The details are not transferable to other products. Insofar as the product mentioned in this safety

(Contd. on page 11)

Version number 15 (replaces version 14)

#### Trade name NEUKADUR MultiCast 12 TZ 12

(Contd. of page 10)

Revision: 21.04.2023

data sheet is mixed with other materials, mixed or processed, or subjected to processing, the information in this safety data sheet, unless expressly stated otherwise, can not be transferred to the new material produced in this way.

UFI code is valid in:

Germany

Portugal

- · Department issuing SDS: environment protection department
- · Contact: Herr Ottensmann Tel. +49 (0)2056-25863-7
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Asp. Tox. 1: Aspiration hazard - Category 1

GB ·