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

1.1. Product identifier

Product form : Mixture
Trade name/designation : POLYMER MODIFIED BITUMEN 25/55-55
Product group : Trade product

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
Use of the substance/mixture : Distribution
Intermediate
Formulation
Lubricants,
Coating,
Rubber products
Construction,
Drilling applications
Fuels

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Supplier

NIS a.d. Novi Sad
Narodnog Fronta 12
21000 Novi Sad - Serbia
T + 381 (0) 21 481 1111
Dragana.Cvetkov@nis.eu (Responsible person SDS/REACH)

Only Representative

REACH Law Ltd.
Vänrikinkuja 3 JK 21
02600 Espoo - Finland
T +358(0) 9 412 3055 - F +358 (0) 9 412 3049
sds@reachlaw.fi

Manufacturer

NIS a.d. Novi Sad
Narodnog Fronta 12
21000 Novi Sad - Serbia
T + 381 (0) 21 481 1111
Dragana.Cvetkov@nis.eu (Responsible person SDS/REACH)

1.4. Emergency telephone number

Emergency number : + 381 (0) 21 481 1111 (08-16h) + 381 (0)11 360 8440 (24 h) + 381 (0)11 266 1122 (24 h) + 381 (0)11 266 2755 (24 h)

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours, healthcare professionals only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Not applicable.

2.3. Other hazards

Other hazards : PBT/vPvB data. This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB). This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Asphalt, oxidized	(CAS No.) 64742-93-4 (EC No) 265-196-4 (EC Index) - (REACH-no) 01-2119498270-36-0049	95 - 100	Not classified
SBS Polymer (Styrene-butadiene-styrene)	(CAS No.) 9003-55-8 (EC No) 618-370-2	<= 5	Not classified

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice : First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person or a person with cramps. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

Inhalation : Keep at rest. Provide fresh air. In case of doubt or persistent symptoms, consult always a physician.

Skin contact : Wash with plenty of water. In case of doubt or persistent symptoms, consult always a physician.

Eyes contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In case of doubt or persistent symptoms, consult always a physician.

In case of ingestion : Rinse mouth. Rinse mouth immediately and drink plenty of water. Get medical advice/attention.

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

Inhalation : Elevated temperatures or mechanical action may form vapours, mists or fumes which may be irritating to the eyes, nose, throat and lungs.

Skin contact : Hot product (liquid) can cause thermal burns.

Eyes contact : Hot product (liquid) can cause thermal burns.

Ingestion : Ingestion is not considered a potential route of exposure.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.

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Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards : Hazardous decomposition products COx.

5.3. Advice for firefighters

Firefighting instructions : Special protective equipment for firefighters. . In case of fire: Wear self-contained breathing apparatus. Use water spray or fog for cooling exposed containers. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Provide adequate ventilation. Evacuate personnel to a safe area. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Collect in closed and suitable containers for disposal. After cleaning, flush traces away with water. Dispose of contaminated materials in accordance with current regulations.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8 . Disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures : Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. Keep work clothes separately. Take off contaminated clothing. Keep away from food, drink and animal feedingstuffs.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Do not store near or with any of the incompatible materials listed in section 10. Keep/Store only in original container. Keep container tightly closed in a cool, well-ventilated place.

Packaging materials : Coated steels,. metal containers.

7.3. Specific end use(s)

Not applicable.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Asphalt, oxidized (64742-93-4)	
DNEL/DMEL (workers)	
Long-term - local effects, inhalation	(8h) 2,9 mg/m ³
DNEL/DMEL (general population)	
Long-term - local effects, inhalation	(24h) 0,6 mg/m ³

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Asphalt, oxidized (64742-93-4)	
PNEC (additional information)	
Additional information	No data available UVCB

Additional information : Asphalt, oxidized (CAS 64742-93-4): Concentration measurement in air. Personal air monitoring

8.2. Exposure controls

Engineering control measures	: Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Ensure equipment is adequately earthed. Organisational measures to prevent /limit releases, dispersion and exposure. See also section 7.
Personal protection equipment	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hand protection	: The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves. (EN407)
Eye protection	: During splash contact: Face protection shield (EN166)
Body protection	: Overalls, apron and boots recommended
Respiratory protection	: In the case of vapour formation use a respirator with an approved filter. Self-contained open-circuit compressed air breathing apparatus (EN 137)
Thermal hazard protection	: Heat resistant gloves (EN407).
Environmental exposure controls	: Do not allow to enter into surface water or drains. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: liquid
Appearance	: viscous liquid. / Solid <= 19 °C.
Colour	: dark brown. Black.
Odour	: characteristic.
Odour threshold	: No data available No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point/freezing point	: 30 - 128 °C (ASTM D36)
Freezing point	: No data available
Initial boiling point and boiling range	: > 320 °C
Flash point	: >= 250 °C (EN ISO 2592)
Auto-ignition temperature	: > 400 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: << 0,1 kPa (20°C)
Vapour density	: No data available
Relative density	: 0,925 - 1,07 g/cm ³ (15°C)
Solubility	: Water: insoluble (20°C)
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: 1000 - 16000 mm ² /s (60°C)(EN12595) 1189 - 8650 mPa.s (100°C)(EN13302) 80 - 3210 mm ² /s (135°C)(EN12595)

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Dynamic viscosity : No data available
Explosive properties : Not applicable.
Oxidising properties : Not applicable.
Explosive limits : No data available

9.2. Other information

Softening point : >= 55 °C
Additional information : penetration @ 25°C, 25 - 55 (1 - 10mm)

SECTION 10: Stability and reactivity

10.1. Reactivity

Reference to other sections: 10.5.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

None.

10.5. Incompatible materials

Incompatible with strong acids and oxidizing agents. Bases . See also section 7 : Handling and storage.

10.6. Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Asphalt, oxidized (64742-93-4)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg
LC50/inhalation/4h/rat	94,4 mg/m ³

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: No data available
Serious eye damage/eye irritation : Not classified (Based on available data, the classification criteria are not met)
pH: No data available
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Asphalt, oxidized (64742-93-4)	
NOAEL, subacute, Dermal, rabbit, local	200 mg/kg bw/day
NOAEL, subacute, Dermal, rabbit, systemic	2000 mg/kg bw/day
NOAEC, subchronic, Inhalation, Rat, systemic	103.9 mg/m ³
NOAEC, subchronic, Inhalation, Rat, local	10.4 mg/m ³

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Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

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Kinematic viscosity	1000 - 16000 mm ² /s (60°C)(EN12595)

Other information : Symptoms related to the physical, chemical and toxicological characteristics.
Reference to other sections: 4.2.

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : Not hazardous.

Asphalt, oxidized (64742-93-4)	
Acute (short-term) fish toxicity, LL50 (96h)	> 1000 mg/l QSAR
Chronic (long-term) fish toxicity, LL50 (28d)	> 1000 mg/l QSAR
Chronic (long-term) fish toxicity, NOEL	≥ 1000 mg/l QSAR
Acute (short-term) daphnia toxicity, LL50 (48h)	> 1000 mg/l QSAR
Chronic (long-term) daphnia toxicity, NOEL (21d)	≥ 1000 mg/l QSAR
Acute (short-term) algae toxicity, EL50 (72h)	> 1000 mg/l QSAR (Inhibition of growth rate.)
Toxicity to other organisms (Tetrahymena pyriformis), LL50 (40h)	> 1000 mg/l QSAR
Toxicity to other organisms (Tetrahymena Pyriformis), NOEL (40h)	> 1000 mg/l Inhibition of growth rate.

12.2. Persistence and degradability

POLYMER MODIFIED BITUMEN 25/55-55	
Persistence and degradability	Taking into consideration the properties of several components, the product is estimated not to be readily biodegradable according to OECD classification.

12.3. Bioaccumulative potential

POLYMER MODIFIED BITUMEN 25/55-55	
Partition coefficient n-octanol/water	No data available

12.4. Mobility in soil

POLYMER MODIFIED BITUMEN 25/55-55	
Ecology - soil	No data available.
Asphalt, oxidized (64742-93-4)	
Surface tension	Not applicable

12.5. Results of PBT and vPvB assessment

POLYMER MODIFIED BITUMEN 25/55-55	
Results of PBT assessment	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

Additional information : No data available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	: Handle with care. Safe handling: see section 7 : Handling and storage . Dispose of contaminated materials in accordance with current regulations. Refer to manufacturer/supplier for information on recovery/recycling. Collect and dispose of waste product at an authorised disposal facility.
Additional information	: Delivery to an approved waste disposal company.
Further ecological information	: Do not allow to enter into surface water or drains.
List of proposed waste codes/waste designations in accordance with EWC (2001/573/EC, 75/442/EEC, 91/689/EEC)	: The following Waste Codes are only suggestions: 05 01 17 - bitumen Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

SECTION 14: Transport information

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

14.1. UN number

UN number	: 3257 (if applicable)
UN-No	: 3257 (if applicable)
UN-No	: Not regulated
UN-No. (ADN)	: 3257 (if applicable)
UN-No. (RID)	: 3257 (if applicable)

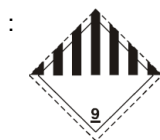
14.2. UN proper shipping name

Proper Shipping Name	: ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt, oxidized ())
Proper Shipping Name (IMDG)	: ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt, oxidized ())
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt, oxidized ())
Proper Shipping Name (RID)	: ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt, oxidized ())
Transport document description (ADR)	: UN 3257 (if applicable) ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt, oxidized ()), 9, III, (D)
Transport document description (IMDG)	: UN 3257 (if applicable) ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt, oxidized ()), 9, III
Transport document description (ADN)	: UN 3257 (if applicable) ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt, oxidized ()), 9, III
Transport document description (RID)	: UN 3257 (if applicable) ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt, oxidized ()), 9, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 9
Danger labels (ADR)	: 9



IMDG

Transport hazard class(es) (IMDG)	: 9
Danger labels (IMDG)	: 9

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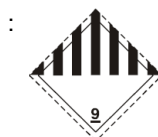
IATA

Transport hazard class(es) (IATA) : Not regulated

ADN

Transport hazard class(es) (ADN) : 9

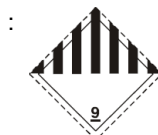
Danger labels (ADN) : 9



RID

Transport hazard class(es) (RID) : 9

Danger labels (RID) : 9



14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : Not regulated

Packing group (ADN) : III

Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Special precautions for user : Polymer modified bitumen is dispatched and transported the car tanks. Tanks that are used to transport polymer modified bitumen must be satisfactory purity. It is preferred that therein the previously transported to a polymer modified bitumen. Tanks which previously transported travel bitumen, fuel oil, etc. can not be used to transport polymer modified bitumen without rinsing to remove traces of these products . Minimum temperature polymer modified bitumen when loading the tanks should be 165 °C.

- Overland transport

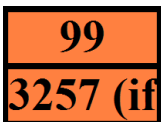
Classification code (ADR) : M9

Special Provisions : 274, 643

Limited quantities (ADR) : 0

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Excepted quantities (ADR) : E0
 Packing instructions (ADR) : P099, IBC99
 Portable tank and bulk container instructions (ADR) : T3
 Portable tank and bulk container special provisions (ADR) : TP3, TP29
 Tank code (ADR) : LGAV
 Tank special provisions (ADR) : TU35, TC7, TE6, TE14, TE24
 Vehicle for tank carriage : AT
 Transport category (ADR) : 3
 Special provisions for carriage - Bulk (ADR) : VC3
 Hazard identification number (Kemler No.) : 99
 Orange plates :



tunnel restriction code : D
 EAC code : 2Y

- Transport by sea

Special provisions (IMDG) : 232, 274
 Limited quantities (IMDG) : 0
 Excepted quantities (IMDG) : E0
 Packing instructions (IMDG) : P099
 IBC packing instructions (IMDG) : IBC01
 Tank instructions (IMDG) : T3
 Tank special provisions (IMDG) : TP3, TP29
 EmS-No. (Fire) : F-A
 EmS-No. (Spillage) : S-P
 Stowage category (IMDG) : A
 Stowage and handling (IMDG) : SW5
 Flash point (IMDG) : above 100°C
 Properties and observations (IMDG) : Any liquid which is transported at or above 100°C but below its flashpoint. May cause fire if in contact with combustible material due to extreme temperature.

- Air transport

Not regulated

- Inland waterway transport

Classification code (ADN) : M9
 Special provisions (ADN) : 274, 58, 643
 Limited quantities (ADN) : 0
 Excepted quantities (ADN) : E0
 Carriage permitted (ADN) : T
 Equipment required (ADN) : PP
 Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : M9
 Special provisions (RID) : 274, 643
 Limited quantities (RID) : 0

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Excepted quantities (RID) : E0
 Packing instructions (RID) : P099, IBC99
 Portable tank and bulk container instructions (RID) : T3
 Portable tank and bulk container special provisions (RID) : TP3, TP29
 Tank codes for RID tanks (RID) : LGAV
 Special provisions for RID tanks (RID) : TU35, TE6, TE14
 Transport category (RID) : 3
 Special provisions for carriage – Bulk (RID) : VC3
 Special provisions for carriage - Loading, unloading and handling (RID) : CW17, CW31
 Hazard identification number (RID) : 99

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

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

Contains no REACH substances with Annex XVII restrictions
 Contains no substance on the REACH candidate list
 Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)
 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Asphalt, oxidized is listed
 SZW-lijst van mutagene stoffen : Asphalt, oxidized is listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out

Asphalt, oxidized

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SECTION 16: Other information

Abbreviations and acronyms:

	DNEL = Derived No Effect Level
	DMEL = Derived Minimal Effect level
	PNEC = Predicted No Effect Concentration
	OEL-STEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	TWA = time weighted average
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	NOEL = no-observed-effect level
	NOEC = No observed effect concentration
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	EWC = European waste catalogue
	NA = Not applicable
	N.O.S. = Not Otherwise Specified
	VOC = Volatile organic compounds
	mg/kg BW = mg/kg bodyweight
	QSAR = Quantitative structure-activity relationship (QSAR)
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)
	ABM = Algemene beoordelingsmethodiek

Sources of key data used to compile the datasheet : European Chemicals Bureau : ecb.jrc.it CSR, SDS supplier.

The contents and format of this SDS are in accordance with EEC Commission Directive 2015/830/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, 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 SDS was prepared and is to be used only for this product. If the

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product is used as a component in another product, this SDS information may not be applicable.