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

1.1. Product identifier

Product form : Substance
Trade name/designation : INDUSTRIAL BITUMEN,VACUUM BIT 200
Chemical name : Asphalt
EC no : 232-490-9
CAS No : 8052-42-4
REACH registration No : 01-2119480172-44-0068
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

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
srdjan.sokolovic@nis.rs (SDS) / Dragana.Cvetkov@nis.eu
[\(REACH\)](#)

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

1.4. Emergency telephone number

Emergency number : + 381 (0) 21 481 1111 (This telephone number is available during office hours only.)

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

2.2. Label elements

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

Not applicable.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

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This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance name : ASPHALT
CAS No : 8052-42-4
EC no : 232-490-9

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Asphalt	(CAS No) 8052-42-4 (EC no) 232-490-9 (EC Index) - (REACH-no) 01-2119480172-44-0068	100	Not classified

Full text of H-statements: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice : First aider: Pay attention to self-protection. See also section 8 . Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. In case of doubt or persistent symptoms, consult always a physician.

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.

Eye 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. Call a physician immediately.

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.

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

Ingestion : According to experience not expected.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards : Not combustible.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂).

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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 container tightly closed in a cool, well-ventilated place.

Incompatible substances or mixtures : Strong acids. Strong oxidizing agents. Strong bases.

Packaging materials : Keep/Store only in original container. Steel,. Stainless steel,. Coated steels,. metal containers.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Asphalt (8052-42-4)		
Belgium	Limit value (mg/m ³)	5 mg/m ³ (fume)
Bulgaria	OEL TWA (mg/m ³)	5,0 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	10,0 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	5 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³

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Asphalt (8052-42-4)		
Denmark	Grænseværdie (langvarig) (mg/m ³)	1 mg/m ³ (Cyclohexane fraction of total dust-fume)
Estonia	OEL TWA (mg/m ³)	5 mg/m ³ (fume)
Greece	OEL TWA (mg/m ³)	5 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	0,5 mg/m ³ (petroleum fumes)
Ireland	OEL (15 min ref) (mg/m ³)	10 mg/m ³ (petroleum fumes-inhalable fraction)
Poland	NDS (mg/m ³)	5 mg/m ³ (inhalable fraction)
Poland	NDSCh (mg/m ³)	10 mg/m ³ (inhalable fraction)
Portugal	OEL TWA (mg/m ³)	0,5 mg/m ³ (fumes, inhalable fraction)
Romania	OEL TWA (mg/m ³)	5 mg/m ³ (fume)
Slovenia	OEL TWA (ppm)	10 ppm (aerosol and vapor in thermal treatment)
Spain	VLA-ED (mg/m ³)	0,5 mg/m ³ (fume)
United Kingdom	WEL TWA (mg/m ³)	5 mg/m ³ (fumes)
United Kingdom	WEL STEL (mg/m ³)	10 mg/m ³ (fumes)
Norway	Grænseverdier (AN) (mg/m ³)	5 mg/m ³ (fume)
Norway	Grænseverdier (Korttidsverdi) (mg/m ³)	5 mg/m ³ (fume)
Switzerland	VME (mg/m ³)	10 mg/m ³ (hot processing-aerosol and vapor)
Australia	TWA (mg/m ³)	5 mg/m ³ (fume)
Canada (Quebec)	VEMP (mg/m ³)	5 mg/m ³ (fume)
USA - ACGIH	ACGIH TWA (mg/m ³)	0,5 mg/m ³ (fume, inhalable particulate matter)
USA - NIOSH	NIOSH REL (ceiling) (mg/m ³)	5 mg/m ³ (fume)

Additional information : Personal monitoring. Concentration measurement in air

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 : Wear chemically resistant gloves (tested to EN374) . 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).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : liquid
- Appearance : liquid.
- Colour : No data available.
- Odour : characteristic.

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Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point/freezing point	: ~ 30 - 130 °C
Freezing point	: No data available
Initial boiling point and boiling range	: ~ > 400 °C
Flash point	: ~ > 230 °C Closed cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable, liquid
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Density	: ~ 1000 - 1050 kg/m ³ (15°C)
Solubility	: Water: No information available
Partition coefficient n-octanol/water	: ~ > 6
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: Not applicable

9.2. Other information

No data available

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

No data available

10.4. Conditions to avoid

None. See also section 7.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. Carbon oxides (CO, CO₂). Reference to other sections: 5.2.

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 (8052-42-4)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg

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Asphalt (8052-42-4)	
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) NOAEC: 300 mg/m ³
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 (8052-42-4)	
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

Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
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	: Ecological injuries are not known or expected under normal use.
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Asphalt (8052-42-4)	
ErC50 (algae)	> 1000 mg/l
NOEC chronic fish	> 1000 mg/l
NOEC chronic crustacea	> 1000 mg/l
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

INDUSTRIAL BITUMEN, VACUUM BIT 200 (8052-42-4)	
Persistence and degradability	Not readily biodegradable (according to OECD criteria).

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12.3. Bioaccumulative potential

INDUSTRIAL BITUMEN,VACUUM BIT 200 (8052-42-4)	
Partition coefficient n-octanol/water	~ > 6
Bioaccumulative potential	May cause bioaccumulation.
Asphalt (8052-42-4)	
BCF fish 1	(no bioaccumulation expected)
Partition coefficient n-octanol/water	Justification for data waiving

12.4. Mobility in soil

INDUSTRIAL BITUMEN,VACUUM BIT 200 (8052-42-4)	
Ecology - soil	No data available.
Asphalt (8052-42-4)	
Surface tension	Justification for data waiving

12.5. Results of PBT and vPvB assessment

INDUSTRIAL BITUMEN,VACUUM BIT 200 (8052-42-4)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Other adverse effects

Other adverse effects : No data available.

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


ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3257	3257	Not regulated	3257	3257
14.2. UN proper shipping name				
ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt)	ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt)	Not regulated	ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt)	ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt)
Transport document description				
UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt), 9, III, (D)	UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt), 9, III	Not regulated	UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt), 9, III	UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt), 9, III
14.3. Transport hazard class(es)				
9	9	Not regulated	9	9

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ADR	IMDG	IATA	ADN	RID
		Not regulated		
14.4. Packing group				
III	III	Not regulated	III	III
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Not regulated	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : M9
 Special Provisions : 274, 643
 Limited quantities (ADR) : 0
 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

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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
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

No REACH Annex XVII restrictions

INDUSTRIAL BITUMEN,VACUUM BIT 200 is not on the REACH Candidate List

INDUSTRIAL BITUMEN,VACUUM BIT 200 is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to VwVwS, Annex 1 or 2; ID No. 326)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

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Netherlands

SZW-lijst van kankerverwekkende stoffen : ASPHALT is listed
 SZW-lijst van mutagene stoffen : ASPHALT is listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

SECTION 1,2,3,14,15,16.

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)

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	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 : ECHA (European Chemicals Agency). Information Supplier. European Chemicals Agency LOLI.

Training advice : Training staff on good practice.

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.

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