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Revision nr : 2.0

Issue date : 21/02/2023

Multipurpose 2-4-C Marine Lubricant With Teflon

Supersedes : 06/09/2022

766-01-0349\$

(Original SDS: US 832014 2-4-C

Axel 20220609)

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

1.1. Product identifier

Product form : Mixture

Trade name : Multipurpose 2-4-C Marine Lubricant With Teflon
Product code : 8M0208463, 8M0208464, 8M0208465, 8M0213123

8M0207039, 8M0207040

Document no. : 766-01-0349S

(Original SDS: US 832014 2-4-C Axel 20220609)

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use, Professional uses, Consumer use

Use of the substance/mixture : Grease

Lubricant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Brunswick Marine EMEA
Parc industriel de Petit-Rechain, Avenue Mercury 8
4800 Verviers - Belgium
T +32 (0)87 32 32 11

bme.compliance@brunswick.com

1.4. Emergency telephone number

Emergency number : 0032 3 575 55 55

This telephone number is available 24 hours per day, 7 days per week.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aquatic Chronic 3 H412

Full text of H- and EUH-statements: see section 16

2.2. Label elements

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

Signal word : -



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Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P102 - Keep out of reach of children.

P273 - Avoid release to the environment.

P501 - Dispose of contents and container to an approved waste disposal plant.

Child-resistant fastening : Not applicable Tactile warning : Not applicable

2.3. Other hazards

Other hazards : Results of PBT and vPvB assessment : Not applicable.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Mineral oil (<3% DMSO)

Note L:

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346. This note applies only to certain complex oil-derived substances in Annex I.

Product identifier % Classification according to Substance name Regulation (EC) No. 1272/2008 [CLP] Phosphorodithioic acid, mixed O,O-bis(isobutyl and pentyl) esters, (CAS-No.) 68457-79-4 1 – 2,49 Skin Irrit. 2, H315 (EC-No.) 270-608-0 Eye Dam. 1, H318 Aquatic Chronic 2, H411 Fatty acids, C6-19-branched, zinc salts (CAS-No.) 68551-44-0 0,75 - 0,99Aquatic Chronic 2, H411 (EC-No.) 271-378-4

Specific concentration limits:

Substance name	Product identifier	Specific concentration limits
Phosphorodithioic acid, mixed O,O-bis(isobutyl and pentyl) esters,	(CAS-No.) 68457-79-4	(3 ≤C ≤ 100) Eye Dam. 1, H318
zinc salts	(EC-No.) 270-608-0	(15 <c 100)="" 2,="" h315<="" irrit.="" skin="" td="" ≤=""></c>

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. <u>Description of first aid measures</u>

Additional advice

: First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the

doctor in attendance.

Inhalation : Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent

symptoms, consult always a physician.

Skin contact : Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In

case of doubt or persistent symptoms, consult always a physician.



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Eyes contact : Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses,

if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult

always a physician.

Ingestion : Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Get

medical advice/attention.

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

Inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of

normal use.

Skin contact : May cause skin irritation. The following symptoms may occur: Irritation. Redness.

Eyes contact : May cause eye irritation. The following symptoms may occur: Redness. Pain. Tears.

Ingestion : The following symptoms may occur: May cause gastrointestinal irritation, nausea, vomiting

and diarrhoea.

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 : carbon dioxide (CO2), powder, alcohol-resistant foam, water spray.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards : Not flammable.

Hazardous decomposition products in case of

fire

: Carbon dioxide. Carbon monoxide. Metallic oxides. Halogenated compounds.

5.3. Advice for firefighters

Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the

extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus.

Other information : 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 : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Do not

breathe dust. Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8.

Spilled material may present a slipping hazard.

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. Notify authorities if product enters sewers or public waters.



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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 mechanically (sweeping, shovelling) and collect in suitable container for disposal. Large spills: scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation. Clean contaminated floors and objects thoroughly while observing environmental regulations.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Provide adequate ventilation. Do not breathe dust. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment.

Hygiene measures

: Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Store at temperatures not exceeding 45 °C.

Heat and ignition sources

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight.

Special rules on packaging

: Containers which are opened should be properly resealed and kept upright to prevent

Packaging materials

: Keep only in the original container.

leakage.

7.3. Specific end use(s)

Grease. Lubricant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information

: Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

8.2. Exposure controls

Engineering measure(s)

: Provide adequate ventilation. Organisational measures to prevent/limit releases, dispersion and exposure. See Section 7 for information on safe handling. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment

: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.



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Hand protection : Wear chemically resistant gloves (tested to EN374) . Impervious gloves. Suitable material:

Nitrile rubber (btt: >8h, >0,3mm). The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of

hazardous substances.

Eye protection : Use suitable eye protection (EN166): Safety glasses with side shields

Body protection : Wear suitable protective clothing

Respiratory protection : Not required for normal conditions of use. In case of insufficient ventilation, wear suitable

respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type P (EN143). Self-contained open-circuit compressed air breathing apparatus (EN 137). The

filter class must be suitable for the maximum contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Thermal hazard protection : Not required for normal conditions of use. Use dedicated equipment.

Environmental exposure controls : Avoid release to the environment. Comply with applicable Community environmental

protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Grease. Semi-solid.
Colour : Not available

Odour Codour threshold : petroleum-like odour.

Odour threshold : No data available pH : No data available pH solution : Not available codour.

Relative evaporation rate (butylacetate=1) : No data available codour.

Melting / freezing point : No data available codour.

Freezing point : No data available codour.

Flash point : $> 150 \, ^{\circ}\text{C}$

Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability Non flammable. Vapour pressure : No data available No data available Vapour density Relative density : No data available : < 1000 kg/m³ (25 °C) Density : Insoluble in water. Solubility Partition coefficient n-octanol/water : No data available Kinematic viscosity $> 20,5 \text{ mm}^2/\text{s} (40^{\circ}\text{C})$ 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.



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Explosive limits : No data available Particle size : Not available Particle size distribution : Not available Particle shape : Not available Particle aspect ratio : Not available Particle aggregation state : Not available Particle agglomeration state : Not available Particle specific surface area : Not available Particle dustiness : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions. Reference to other sections 10.4 & 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. See Section 7 for information on safe handling.

10.5. Incompatible materials

Strong oxidizing agents. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Reference to other sections 5.2.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

Phosphorodithioic acid, mixed O,O-bis(isobutyl and pentyl) esters, zinc salts (68457-79-4)		
LD50/oral/rat	3600 mg/kg	
LD50 oral	3600 mg/kg Rat	
LD50/dermal/rabbit	> 20000 mg/kg	

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

pH: No data available



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

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Kinematic viscosity	> 20,5 mm²/s (40°C)

Other information : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2 Other information

Other information

: Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-

term (acute)

: Not classified

Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects.

(chronic)

Phosphorodithioic acid, mixed O,O-bis(isobutyl and pentyl) esters, zinc salts (68457-79-4)		
LC50 - Fish [1] > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static])		
LC50 - Fish [2] 25 – 50 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])		
EC50 - Crustacea [1]	4 – 6 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 96h - Algae [1] 1 – 5 mg/l (Species: Pseudokirchneriella subcapitata)		

12.2. Persistence and degradability

Multipurpose 2-4-C Marine Lubricant With Teflon	
Persistence and degradability Not readily biodegradable.	



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12.3. Bioaccumulative potential

Multipurpose 2-4-C Marine Lubricant With Teflon	
Partition coefficient n-octanol/water No data available	
Bioaccumulative potential Does not bioaccumulate.	

Phosphorodithioic acid, mixed O,O-bis(isobutyl and pentyl) esters, zinc salts (68457-79-4)	
Partition coefficient n-octanol/water	0,69 (at 21.8 °C (at pH 5)

12.4. Mobility in soil

Multipurpose 2-4-C Marine Lubricant With Teflon	
Mobility in soil	No data available

12.5. Results of PBT and vPvB assessment

Multipurpose 2-4-C Marine Lubricant With Teflon	
Results of PBT assessment	Not applicable

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

12.7. Other adverse effects

Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated

materials in accordance with current regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC)

This material and its container must be disposed of as hazardous waste

Waste codes should be assigned by the user, preferably in discussion with the waste

disposal authorities

The following Waste Codes are only suggestions: 13 08 99* - wastes not otherwise specified

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID	
14.1. UN number or ID number					
Not applicable Not applicable Not applicable Not applicable Not applicable					



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ADR	IMDG	IATA	ADN	RID
14.2. UN proper ship	ping name			·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport haza	rd class(es)	<u> </u>		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Special precautions for user : No data available

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : 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

 $\ \ \, \text{Listed on REACH Annex XVII (Restriction Conditions)}. \ \, \text{The following restrictions are applicable:} \\$

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories	Phosphorodithioic acid, mixed O,O-bis(isobutyl and
set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on	pentyl) esters, zinc salts
sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories	Phosphorodithioic acid, mixed O,O-bis(isobutyl and
set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	pentyl) esters, zinc salts

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

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



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15.1.2. National regulations

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
na	Not Applicable	na	na

Germany

Regulatory reference : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

Waterbezwaarlijkheid : A (3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic

environment

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

SZW-lijst van reprotoxische stoffen –

Borstvoeding

SZW-lijst van reprotoxische stoffen -

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen -

Ontwikkeling

: None of the components are listed: None of the components are listed

: None of the components are listed

: None of the components are listed

: None of the components are listed

15.2. Chemical safety assessment

Not applicable

SECTION 16: Other information

Indication of changes:

- 2	and all of the highest			
I	1	Logo	Modified	
ſ	1.1	Product code	Modified	

Abbreviations and acronyms:

	ABM = Algemene beoordelingsmethodiek	
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	
	BTT = Breakthrough time (maximum wearing time)	
	DMEL = Derived Minimal Effect level	
	DNEL = Derived No Effect 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	
	EWC = European waste catalogue	



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LC50 = Median lethal concentration
LD50 = Median lethal dose
LL50 = Median lethal level
NA = Not applicable
NOEC = No observed effect concentration
NOEL: no-observed-effect level
NOELR = No observed effect loading rate
NOAEC = No observed adverse effect concentration
NOAEL = No observed adverse effect level
N.O.S. = Not Otherwise Specified
OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
PNEC = Predicted No Effect Concentration
Quantitative structure-activity relationship (QSAR)
STOT = Specific Target Organ Toxicity
TWA = time weighted average
VOC = Volatile organic compounds
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the

datasheet

: European Chemicals Agency. SDS supplier, CONCAWE, LOLI.

Training advice : Training staff on good practice.

Other information : Assessment/classification CLP. Article 9. Calculation method.

Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H315	Causes skin irritation.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Classification according to Regulation (EC) No. 1272/2008 [CLP] Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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