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

1.1. Product identifier

Commercial Product Name : GEM Fuel

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

Specific use(s) : Fuel

1.3. Details of the supplier of the safety data sheet

Company : BioMethanol Chemie Nederland B.V. (BioMCN)
 PO Box 251
 NL-9930 AG-DELFZIJL, The Netherlands
 Tel.+31 (0)596 64 77 00
 E-mail address:info@biomcn.eu

1.4. Emergency telephone number

Emergency telephone : + 31 570679211 (Fax. + 31 570679801) (This telephone number is available 24 hours per day, 7 days per week.)

UNITED KINGDOM
 National Poisons Information Service
 (Birmingham Centre) +44 (0) 870 600 6266 (UK only)
 City Hospital

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008

CLP-Classification : The product is classified as hazardous in accordance with Directive 1272/2008/EEC.


Flam. Liq. 1	H224
Acute Tox. 3 (Oral)	H301
Acute Tox. 3 (Dermal)	H311
Acute Tox. 3 (Inhalation:vapour)	H331
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Muta. 1B	H340
Carc. 1B	H350
Repr. 2	H361
STOT SE 1	H370
Asp. Tox. 1	H304
Aquatic Chronic 2	H411

Full text of H-phrases: see section 16

2.1.2. Classification according to EU Directives 67/548/EC or 1999/45/EC

Classification : The product is classified as dangerous in accordance with Directive 1999/45/EC.

Carc.Cat.2; R45
 Muta.Cat.2; R46
 Repr.Cat.3; R62
 Repr.Cat.3; R63

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F+; R12
T; R23/24/25
T; R39/23/24/25
Xn; R65
Xi; R36/38
N; R51/53

Full text of R-phrases: see section 16

2.2. Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008

CLP pictograms :



Signal word :

Danger

Contains :

Gasoline
Methanol

Hazard statements (CLP) :

H224 - Extremely flammable liquid and vapour.
H301 - Toxic if swallowed.
H304 - May be fatal if swallowed and enters airways.
H311 - Toxic in contact with skin.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H331 - Toxic if inhaled.
H340 - May cause genetic defects.
H350 - May cause cancer.
H361 - Suspected of damaging fertility or the unborn child.
H370 - Causes damage to organs.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P201 - Obtain special instructions before use.
P260 - Do not breathe vapour.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P273 - Avoid release to the environment.
P308+P313 - IF exposed or concerned: Get medical advice/ attention.

2.2.2. Labelling according to Directives (67/548 - 1999/45)

Not relevant

2.3. Other hazards

Other hazards which do not result in classification :

Results of PBT and vPvB 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).


SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
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Methanol	(CAS No.) 67-56-1 (EC No) 200-659-6 (EC Index) 603-001-00-X (REACH-no) 01-2119433307-44	42	F; R11 T; R23/24/25-39/23/24/25
Gasoline	(CAS No.) 86290-81-5 (EC No) 289-220-8 (EC Index) 649-378-00-4	37	Carc.Cat.2; R45 Muta.Cat.2; R46 Repr.Cat.3; R62 Repr.Cat.3; R63 F+; R12 Xn; R65 Xi; R38 N; R51/53 R67
Ethanol	(CAS No.) 64-17-5 (EC No) 200-578-6 (EC Index) 603-002-00-5	21	F; R11 Xi; R36


Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methanol	(CAS No.) 67-56-1 (EC No) 200-659-6 (EC Index) 603-001-00-X (REACH-no) 01-2119433307-44	42	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
Gasoline	(CAS No.) 86290-81-5 (EC No) 289-220-8 (EC Index) 649-378-00-4	37	Flam. Liq. 1, H224 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H336 Aquatic Chronic 2, H411 Repr. 2, H361fd
Ethanol	(CAS No.) 64-17-5 (EC No) 200-578-6 (EC Index) 603-002-00-5	21	Flam. Liq. 2, H225 Eye Irrit. 2, H319

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	: Keep at rest. Move to fresh air. Oxygen or artificial respiration if needed. Call a physician immediately.
Skin contact	: Wash off immediately with soap and plenty of water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
Ingestion	: Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.
Additional advice	: First aider needs to protect himself. See also section 8 . Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Treat symptomatically. When symptoms persist or in all cases of doubt seek medical advice.

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

Inhalation	: Toxic by inhalation. Toxic: danger of serious damage to health by prolonged exposure through inhalation. Symptoms may be delayed. Inhalation may cause central nervous system effects. Unconsciousness .
Skin contact	: Irritating to skin. Toxic in contact with skin. Toxic: danger of very serious irreversible effects in contact with skin. Prolonged skin contact may defat the skin and produce dermatitis.
Eye contact	: Causes serious eye irritation. Most important symptoms : Redness, Pain .
Ingestion	: Toxic if swallowed. Toxic: danger of very serious irreversible effects if swallowed. May be fatal if swallowed and enters airways. Symptoms may be delayed. Ingestion may provoke the following symptoms: Impairment of the nervous system . Possible effects include headache, dizziness, cramp, unconsciousness and death. Blindness . Aspiration may cause pulmonary oedema and pneumonitis.

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	: Use dry chemical, CO ₂ , water spray or alcohol resistant foam.
Extinguishing media which shall not be used for safety reasons	: High volume water jet .

5.2. Special hazards arising from the substance or mixture

Fire Hazard	: Extremely flammable .
Specific hazards	: Evacuate personnel to safe areas. Vapours may form explosive mixture with air. Vapours are heavier than air and may spread along floors. Flash back possible over considerable distance. Cool containers / tanks with water spray. Possible decomposition products are: CO _x . Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.


5.3. Advice for firefighters

Advice for firefighters	: Special protective equipment for firefighters . In the event of fire, wear self-contained breathing apparatus. In the event of fire, cool tanks with water spray.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel	: Ensure adequate ventilation. Wear personal protective equipment. See also section 8 . Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition. Ensure all equipment is electrically grounded before beginning transfer operations. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixture with air. Flash back possible over considerable distance.
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Advice for emergency responders : Only qualified personnel equipped with suitable protective equipment may intervene.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Prevent further leakage or spillage if safe to do so.
 Dam up.
 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
 Sweep up and shovel into suitable containers for disposal.
 Dispose of in accordance with local regulations.

6.4. Reference to other sections

See also section 13.
 See also section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling : Ensure adequate ventilation.
 See also section 8 .
 Avoid contact with skin, eyes and clothing.
 Do not breathe vapours or spray mist.
 Ensure all equipment is electrically grounded before beginning transfer operations.
 Take care to avoid waste and spillage when weighing, loading and mixing the product.
 Take any precaution to avoid mixing with Incompatible materials.
 See also section 10.
 Always replace cap after use.
 Do not burn, or use a cutting torch on, the empty drum.
 Do not puncture or incinerate.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
 Wash hands before breaks and immediately after handling the product.
 When using, do not eat, drink or smoke.
 Remove and wash contaminated clothing before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep tightly closed in a dry, cool and well-ventilated place.
 Keep away from open flames, hot surfaces and sources of ignition.
 Do not store near or with any of the incompatible materials listed in section 10.

7.3 Specific end use(s)


No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) :

Component : **Ethanol (64-17-5)**
 TLV-TWA (ppm) : 1000 (FR, GB, PT, BE, ES, DK, FI); 500 (DE, SE, NO, CH)

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TLV-TWA (mg/m³) : 260 (NL); 950 (NO); 960 (DE, CH, SK); 1000 (SE, CS, ET, LT, BG, LV, RU); 1900 (DK, FR, FI, GR, AT, HU, SL, HR, PL); 1907 (BE); 1910 (ES); 1920 (GB)

TLV-STEL (ppm) : 5000 (FR); 1000 (SE, CH); 1300 (FI)

TLV-STEL (mg/m³) : 1900 (LT, ET, NL, SE); 1920 (CH, SK); 2500 (FI); 3000 (CS); 3800 (AT); 9500 (FR)

Component : **Methanol (67-56-1)**

TLV-TWA (ppm) : 200 (FR, GB, PT, DE, BE, SE, ES, DK, FI, CH); 100 (NL, NO)

TLV-TWA (mg/m³) : 260 (DK, LV, LU, SK, SI, CH, FR, AT, LT, GR, HU, HR); 266 (BE, ES, GB); 50 (BG); 250 (SE, EE, CZ); 270 (DE, FI); 100 (PL); 130 (NO); 133 (NL)

TLV-STEL (ppm) : 1000 (FR); 250 (PT, GB, BE, SE, FI); 800 (CH)

TLV-STEL (mg/m³) : 325 (GR) ; 330 (FI) ; 333 (BE, GB); 350 (SE, EE); 520 (NL); 1040 (CH, AT); 1000 (CZ); 1300 (FR); 300 (PL); 1040 (HU); 1080 (DE)

Component : **Gasoline (86290-81-5)**

TLV-TWA (ppm) : 300 (CH, VLA-ED Spain, 2008)

TLV-TWA (mg/m³) : 1100 (CH), 250 (UT4, Kraftstoff, DE); mist: 5 (BE, GB, FR, NL, ES, FI, DK, NO); mist: 1 (SE);

TLV-STEL (mg/m³) : mist: 10 (BE, GB); mist: 3 (SE)

Recommended monitoring procedures : Personal monitoring
Concentration measurement in air

8.2. Exposure controls

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
Respirator with a full face mask (EN136).
Respirator with a half face mask (EN140).
Recommended Filter type: A (EN141).
Self-contained open-circuit compressed air breathing apparatus (EN 137) .

Hand protection : Rubber gloves (EN 374)- Nitrile rubber . 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.

Eye protection : Safety glasses (EN166)

Engineering measures : Closed system .
Use only in area provided with appropriate exhaust ventilation.
Ensure that eyewash stations and safety showers are close to the workstation location.
Eye wash bottle with pure water .
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
Organisational measures to prevent /limit releases, dispersion and exposure
See also section 7 .


Environmental exposure controls : Comply with applicable Community environmental protection legislation.
Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

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Odour	: petroleum hydrocarbon odour
pH	: no data available
Melting point/range	: no data available
Boiling point/boiling range	: < 35 °C
Flash point	: < 0 °C
Evaporation rate	: no data available
Explosion limits	: LEL 1,4 vol% - UEL 38,5 vol %
Vapour density	: > 1 (Air = 1.0)
Viscosity	: < 1 cSt (@20°C)
Explosive properties	: not applicable
Oxidizing properties	: not applicable

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity : Extremely flammable
See also section 10.5

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixtures with air.

10.4. Conditions to avoid

Conditions to avoid : Heat, flames and sparks.
See also section 7 .

10.5. Incompatible materials

Incompatible materials : Oxidizing agents . See also section 7 .

10.6. Hazardous decomposition products

Hazardous decomposition products : Carbon oxides .


SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

Ethanol (64-17-5)	
LD50/oral/rat	10470 mg/kg
LD50/dermal/rabbit	> 15800 mg/kg
LC50/inhalation/4h/rat	30000 mg/m ³ Air

Methanol (67-56-1)	
LD50/oral/rat	5300 mg/kg

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Gasoline (86290-81-5)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rat	> 2000 mg/kg
LC50/inhalation/4h/rat	5,2 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation. pH: no data available
Serious eye damage/irritation	: Causes serious eye irritation. pH: no data available
Respiratory/skin sensitisation	: Not classified (Not classified due to data which are conclusive although insufficient for classification.)
Germ cell mutagenicity	: May cause genetic defects.
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Causes damage to organs.
Specific target organ toxicity (repeated exposure)	: Not classified (Not classified due to data which are conclusive although insufficient for classification.)
Aspiration hazard	: May be fatal if swallowed and enters airways.
Further information	: Symptoms related to the physical, chemical and toxicological characteristics See section 4.2.

SECTION 12: Ecological information


12.1. Toxicity

Ecotoxicity effects : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component : **Ethanol (64-17-5)**
 LC50/96h/fish : 11200 mg/l
 EC50/48h/daphnia : 5012 mg/l Fresh water
 857 Marine water
 IC50/72h/algae : 275 mg/l Fresh water
 1970 mg/l Marine water

Component : **Methanol (67-56-1)**
 LC50/96h/fish : 15400 mg/l (Lepomis macrochirus)
 20100 mg/l (Oncorhynchus mykiss)
 28100 mg/l (Pimephales promelas)

Component : **Gasoline (86290-81-5)**
 LC50/96h/fish : 82 mg/l
 EC50/48h/daphnia : 7,6 mg/l

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12.2. Persistence and degradability

Persistence and degradability : Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation : No data is available on the product itself.

12.4. Mobility in soil

Mobility : This information is not available.

12.5. Results of PBT and vPvB assessment

PBT/vPvB : 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

Further information : No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products : Handle with care.
See also section 7 .
Do not flush into surface water or sanitary sewer system.
Dispose of in accordance with local regulations.
Where possible recycling is preferred to disposal or incineration.
Collect and dispose of waste product at an authorised disposal facility.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

Codes of waste (2001/573/EC, 75/442/EEC, 91/689/EEC) : Classified as hazardous waste according to European Union regulations.
The following Waste Codes are only suggestions:
130702 - petrol /
150110 - packaging containing residues of or contaminated by dangerous substances .
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1. UN number

UN-No. : 1992


14.2. UN proper shipping name

Proper shipping name : FLAMMABLE LIQUID, TOXIC, N.O.S.(CONTAINS Methanol () Gasoline ())
Proper shipping name IATA/IMDG : FLAMMABLE LIQUID, TOXIC, N.O.S. CONTAINS Methanol () Gasoline ()

14.3. Transport hazard class(es)

14.3.1. Overland transport

Class : 3 - Flammable liquid
Hazard identification number (Kemler No.) : 336

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Classification code : FT1
ADR/RID-Labels : 3 - Flammable liquid
6.1 - Toxic substance



14.3.2. Inland waterway transport (ADN)

Class (ADN) : 3

14.3.3. Transport by sea

Class : 3 - Flammable liquids
Subsidiary Class : 6.1

14.3.4. Air transport

Class : 3 - Flammable liquids
Subsidiary Class : 6.1

14.4. Packing group

Packing group : I

14.5. Environmental hazards

Environmental hazards : P



Other information : No supplementary information available.

14.6. Special precautions for user

No data available

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

No data available

SECTION 15: Regulatory information

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


15.1.1. EU-Regulations

Authorisations/Restrictions on use : not applicable

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC. : none

15.1.2. National regulations

DE: WGK : 3

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DE: German storage class (LGK) : LGK 3 - Flammable liquid materials (Flashpoint < 55 °C)
 DE: TA-Luft : Organic Substances
 DE: Technische Regeln für Gefahrstoffe (TRGS) : applicable
 DE: Risk classification according to VbF : A I - Liquids with a flashpoint below 21°C
 FR : Installations classées : 113x 117x 143x
 NL : ABM : 2 - May cause heritable genetic damage. (A)
 NL: NeR (Nederlandse emissie Richtlijn) : Organic Substances
 DA : At-vejledning C.2.1 (Kræftfarlige stoffer og materialer) : Gasoline
 NO: Produktforskriften (FOR 2004-06-01 nr 922) : Gasoline


15.2. Chemical safety assessment

Chemical Safety Assessment : not required

SECTION 16: Other information

Full text of R-, H- and EUH-phrases

Acute Tox. 3 (Dermal) : Acute toxicity (dermal) Category 3
 Acute Tox. 3 (Inhalation) : Acute toxicity (inhalation) Category 3
 Acute Tox. 3 (Inhalation:vapour) : Acute toxicity (inhalation) Category 3
 Acute Tox. 3 (Oral) : Acute toxicity Category 3
 Aquatic Chronic 2 : Hazardous to the aquatic environment - chronic hazard category 2
 Asp. Tox. 1 : Aspiration hazard Category 1
 Carc. 1B : Carcinogenicity Category 1B
 Eye Irrit. 2 : Serious eye damage/eye irritation Category 2
 Flam. Liq. 1 : Flammable liquids Category 1
 Flam. Liq. 2 : Flammable liquids Category 2
 Muta. 1B : Germ cell mutagenicity, hazard categories 1B
 Repr. 2 : Reproductive toxicity, Hazard Category 2
 Repr. 2 : Reproductive toxicity, Hazard Category 2
 Skin Irrit. 2 : skin corrosion/irritation Category 2
 STOT SE 1 : Specific target organ toxicity (single exposure) Category 1
 STOT SE 3 : Specific target organ toxicity (single exposure) Category 3
 H224 : Extremely flammable liquid and vapour.
 H225 : Highly flammable liquid and vapour.
 H301 : Toxic if swallowed.
 H304 : May be fatal if swallowed and enters airways.
 H311 : Toxic in contact with skin.
 H315 : Causes skin irritation.
 H319 : Causes serious eye irritation.
 H331 : Toxic if inhaled.
 H336 : May cause drowsiness or dizziness.
 H340 : May cause genetic defects.
 H350 : May cause cancer.
 H361 : Suspected of damaging fertility or the unborn child.
 H361fd : Suspected of damaging fertility. Suspected of damaging the unborn child.
 H370 : Causes damage to organs.
 H411 : Toxic to aquatic life with long lasting effects.
 R11 : Highly flammable.
 R12 : Extremely flammable.
 R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.
 R36 : Irritating to eyes.
 R36/38 : Irritating to eyes and skin.
 R38 : Irritating to skin.
 R39/23/24/25 : Toxic: danger of very serious irreversible effects through inhalation, in contact with skin

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R45	: and if swallowed.
R46	: May cause cancer.
R51/53	: May cause heritable genetic damage.
	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	: Possible risk of impaired fertility.
R63	: Possible risk of harm to the unborn child.
R65	: Harmful: may cause lung damage if swallowed.
R67	: Vapours may cause drowsiness and dizziness.
F	: Highly flammable.
F+	: Extremely flammable
N	: Dangerous for the environment
T	: Toxic
Xi	: irritating
Xn	: Harmful

Sources of key data used to compile the datasheet : European Chemicals Bureau, Concawe, SDS Supplier

Abbreviations and acronyms : 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
EC50 = Median Effective Concentration
LC50 = Median lethal concentration
LD50 = Median lethal dose
TLV = Threshold limits
TWA = time weighted average
STEL = Short term exposure limit
persistent, bioaccumulating and toxic (PBT).
vPvB = very persistent and very bioaccumulating
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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