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Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_GB

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

1.1 Product identifier

Trade name : Valvoline™ MOTOR START

™ Trademark, Valvoline or its subsidiaries, registered in

various countries

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

Recommended use : Fuels and fuel additives

1.3 Details of the supplier of the safety data sheet Ellis Enterprises B.V., an affiliate of Valvoline Wieldrechtseweg 39 3316 BG Dordrecht Netherlands +31 (0)78 654 3500 (in the Netherlands), or contact your local CSR contact person	1.4 Emergency telephone number 00-800-825-8654 / 001-859-202-3865, or contact your local emergency telephone number at 112 Product Information +31 (0)78 654 3500 (in the Netherlands), or contact your local CSR contact person
SDS@valvoline.com	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1 H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

Specific target organ toxicity - single exposure, Category 3, Central nervous system

H336: May cause drowsiness or dizziness.

Long-term (chronic) aquatic hazard,

Category 3

H412: Harmful to aquatic life with long lasting

effects.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting

effects.

Supplemental Hazard : EUH019 May form explosive peroxides.

Statements EUH066 Repeated exposure may cause skin

dryness or cracking.

Precautionary statements : P101 If medical advice is needed, have product

container or label at hand.

P102 Keep out of reach of children.

Prevention:

P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smokina.

P211 Do not spray on an open flame or other

ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

Storage:

P410 + P412 Protect from sunlight. Do not expose to

temperatures exceeding 50 °C/ 122 °F.

Disposal:

P501 Dispose of contents/container in

accordance with local regulation.

Hazardous components which must be listed on the label:

Diethyl ether

Pentane

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Additional advice

No information available.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Diethyl ether	60-29-7 200-467-2	Flam. Liq.1; H224 Acute Tox.4; H302 Skin Irrit.2; H315 STOT SE3; H336	>= 40,00 - < 50,00
Pentane	109-66-0 203-692-4 01-2119459286-30-xxxx	Flam. Liq.1; H224 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 15,00 - < 20,00
Substances with a worl	xplace exposure limit:		
Butane	106-97-8 203-448-7 01-2119474691-32-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 10,00 - < 15,00

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Call a POISON CENTRE or doctor/physician if exposed or

you feel unwell.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Move to fresh air.

If unconscious, place in recovery position and seek medical

advice

Consult a physician after significant exposure.

In case of skin contact : First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

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In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : IF SWALLOWED: Call a POISON CENTER/doctor if you feel

unwell.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No symptoms known or expected.

Risks : May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray

Foam

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite

explosively.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Do not allow run-off from fire fighting to enter drains or water

courses.

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Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons

5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing

methods

: Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must

> be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.

> Remove all sources of ignition. Ensure adequate ventilation.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Open drum carefully as content may be under pressure.

Provide sufficient air exchange and/or exhaust in work rooms.

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Do not breathe vapours/dust.

Do not smoke.

Container hazardous when empty.

Take precautionary measures against static discharges. Avoid exposure - obtain special instructions before use. Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition. Use

only explosion-proof equipment.

Hygiene measures : Wash hands before breaks and at the end of workday. When

using do not eat or drink. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Observe label precautions. No smoking.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Diethyl ether	60-29-7	STEL	200 ppm 616 mg/m3	2000/39/EC
		TWA	100 ppm 308 mg/m3	2000/39/EC

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		TWA	100 ppm 310 mg/m3	GB EH40
		STEL	200 ppm 620 mg/m3	GB EH40
Pentane	109-66-0	TWA	1.000 ppm 3.000 mg/m3	2006/15/EC
		TWA	600 ppm 1.800 mg/m3	GB EH40
Butane	106-97-8	STEL	750 ppm 1.810 mg/m3	GB EH40
		TWA	600 ppm 1.450 mg/m3	GB EH40

8.2 Exposure controls

Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Skin and body protection : Wear as appropriate:

Impervious clothing

Safety shoes

Flame-resistant clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.

In the case of dust or aerosol formation use respirator with an

approved filter.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance aerosol

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Colour : clear

Odour : ether-like

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling

range

Not applicable

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

36 %(V)

Lower explosion limit / Lower

flammability limit

1,4 %(V)

Vapour pressure : 8 hPa (20 °C)

Relative vapour density : No data available

Relative density : No data available

Density : 0,63 g/cm3 (20 °C)

Solubility(ies)

Water solubility : immiscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Ignition temperature : 170 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

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Viscosity, kinematic : No data available

Oxidizing properties : No data available

9.2 Other information

Self-ignition : not auto-flammable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : None known.

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Acids

Alkali metals Amines halogens Oxidizing agents strong bases

strong reducing agents Sulphur compounds

10.6 Hazardous decomposition products

Hazardous decomposition

products

: No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of : Inhalation

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exposure Skin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate : > 2.000 mg/kg

Method: Calculation method

Components:

ETHYL ETHER:

Acute oral toxicity : LD50 (Rat, female): 1.200 mg/kg

Components:

PENTANE NORMAL:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Assessment: Not classified as acutely toxic by ingestion under

GHS.

Remarks: No mortality observed at this dose.

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Assessment: No adverse effect has been observed in acute

inhalation toxicity tests.

Components:

BUTANE NORMAL:

Acute inhalation toxicity : LC50 (Mouse): 680 mg/l

Exposure time: 2 h

LC50 (Rat): > 50000 ppm Exposure time: 2 h

Test atmosphere: gas

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Components:

ETHYL ETHER:

Result: Irritating to skin.

PENTANE NORMAL:

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Result: Slight, transient irritation

Result: Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:

ETHYL ETHER:

Result: Severely irritating to eyes

PENTANE NORMAL:

Result: Slight, transient irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Components:

BUTANE NORMAL:

Genotoxicity in vitro : Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

ETHYL ETHER:

Assessment: May cause drowsiness or dizziness.

PENTANE NORMAL:

Assessment: May cause drowsiness or dizziness.

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STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Components:

PENTANE NORMAL:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Pentane

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,26 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l

Exposure time: 48 h

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 10,7

mg/l

Exposure time: 72 h

Butane

Toxicity to fish : Remarks: No toxicity at the limit of solubility

QSAR

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): Expected > 10 - < 100

ma/l

Exposure time: 48 h Remarks: QSAR

Toxicity to algae : EC50 (green algae): Expected 7,7 mg/l

Exposure time: 96 h Remarks: QSAR

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12.2 Persistence and degradability

Components:

Pentane

Biodegradability : Result: Readily biodegradable.

Biodegradation: 87 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Butane

Biodegradability : Result: Readily biodegradable.

Remarks: Information given is based on data obtained from

similar substances.

12.3 Bioaccumulative potential

Components:

Diethyl ether

Partition coefficient: n- : log Pow: 0,89

octanol/water

Pentane

Partition coefficient: n-

octanol/water

: log Pow: 3,39

Butane

Partition coefficient: n-

octanol/water

: log Pow: 2,89

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

12.6 Other adverse effects

Product:

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

ADN : UN 1950
ADR : UN 1950
RID : UN 1950
IMDG : UN 1950
IATA : UN 1950

14.2 UN proper shipping name

ADN : AEROSOLS
ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS
IATA : AEROSOLS

14.3 Transport hazard class(es)

ADN : 2
ADR : 2
RID : 2
IMDG : 2.1

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IATA : 2.1

14.4 Packing group

ADN

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1

ADR

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1 Tunnel restriction code : (D)

RID

Packing group : Not assigned by regulation

Classification Code : 5F Hazard Identification Number : 23 Labels : 2.1

IMDG

Packing group : Not assigned by regulation

Labels : 2.1 EmS Code : F-D, S-U

IATA (Cargo)

Packing instruction (cargo : 203

aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable gas

IATA (Passenger)

Packing instruction : 203

(passenger aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable gas

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

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14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: Regulatory information

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

Regulation (EC) No 1005/2009 on substances that

deplete the ozone layer

Regulation (EC) No 850/2004 on persistent organic : Not applicable

pollutants

REACH - List of substances subject to authorisation : Not applicable

(Annex XIV)

REACH - Restrictions on the manufacture, placing on : Not applicable

the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High : Not applicable

Concern for Authorisation (Article 57).

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P3a	FLAMMABLE AEROSOLS	Quantity 1 150 t	Quantity 2 500 t
18	Liquefied extremely flammable gases (including LPG) and natural gas	50 t	200 t

Other regulations : Young people under 18 years old are not allowed to work with

this product according to the EU Directive 94/33/EC on the

: Not applicable

protection of young people at work.

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The components of this product are reported in the following inventories:

DSL : This product contains one or several components that are not

on the Canadian DSL and have annual quantity limits.

AICS Not in compliance with the inventory

ENCS Not in compliance with the inventory

KECI Not in compliance with the inventory

PICCS Not in compliance with the inventory

IECSC Not in compliance with the inventory

TCSI Not in compliance with the inventory

TSCA Not On TSCA Inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Further information

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Full text of H-Statements

H220 Extremely flammable gas.

H224 Extremely flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Other information : The information accumulated herein is believed to be accurate

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but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department ('+31 (0)78 654 3500).

Sources of key data used to compile the Safety Data Sheet Valvoline internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit P-Statement : Precautionary Statement PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

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WEL: Workplace Exposure Level

ABM: Water Hazard Class for the Netherlands

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine

CLP: Classification, Labelling and Packaging

CSA: Chemical Safety Assessment CSR: Chemical Safety Report DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

ELINCS: European List of Notified Chemical Substances

PEC : Predicted Effect Concentration PEL : Permissible Exposure Limits

PNEC: Predicted No Effect Concentration

R-phrase: Risk phrase

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

S-phrase: Safety phrase

WGK: German Water Hazard Class