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

1.1 Product identifier

Trade name Product code

: BMW TwinPower Turbo LL01 5W-30 : 001H0205



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

Use of the Substance/Mixture

: Engine oil.





1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier : Shell Markets (Middle East) Limited

Level 3, The Offices 4, One Central

Dubai World Trade Center P.O.BOX307 Dubai United Arab Emirates

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Telephone : (+971) 800035704494 Telefax : (+971) 43321591

Email Contact for Safety : If you have any enquiries about the content of this SDS

Data Sheet please email lubricantSDS@shell.com

e email lubricantodo estren.com



1.4 Emergency telephone number

: +60383168800 (outside UAE) 800035704494 (within UAE)

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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GHS Classification

Based on available data this substance / mixture does not meet the classification criteria.

2.2 Label elements

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GHS-Labelling

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Hazard pictograms : No Hazard Symbol required

Signal word : No signal word

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Hazard statements

PHYSICAL HAZARDS: Rustrans-Logistic.ru

Not classified as a physical hazard under GHS criteria.

HEALTH HAZARDS:

Not classified as a health hazard under GHS criteria.

ENVIRONMENTAL HAZARDS:

Not classified as an environmental hazard under GHS criteria.

Precautionary statements

Prevention:

No precautionary phrases.

Response:

No precautionary phrases.

Storage:

No precautionary phrases.

Disposal:

No precautionary phrases.



2.3 Other hazards

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities. Not classified as flammable but will burn.



SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Synthetic base oil and additives.

Highly refined mineral oil.

The highly refined mineral oil contains <3% (w/w) DMSO-

extract, according to IP346.

The highly refined mineral oil is only present as additive

diluent.

Classification based on DMSO extract content < 3%

(Regulation (EC) 1272/2008, Annex VI, Part 3, Note L).



Chemical name	CAS-No.	Classification	Concentration (% w/w)
Distillates (Fischer - Tropsch), heavy, C18- 50 – branched, cyclic and linear	848301-69-9 мнальные импортные і	Asp. Tox.1; H304	80 - 90 RUSTIANS-
Distillates (petroleum), solvent- dewaxed heavy paraffinic	64742-65-0	Asp. Tox.1; H304	1 - 3
Alkaryl amine	36878-20-3	Aquatic Chronic4; H413	1 - 3 E MACHA

For explanation of abbreviations see section 16.







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SECTION 4: First aid measures

4.1 Description of first aid measures

Protection of first-aiders

: When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.

If inhaled No treatment necessary under normal conditions of use.

If symptoms persist, obtain medical advice.

In case of skin contact - Remove contaminated clothing. Flush exposed area with

water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.

Flush eye with copious quantities of water. In case of eye contact

Remove contact lenses, if present and easy to do, Continue

rinsina.

If persistent irritation occurs, obtain medical attention.

If swallowed In general no treatment is necessary unless large quantities

are swallowed, however, get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas.

Ingestion may result in nausea, vomiting and/or diarrhoea.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Foam, water spray or fog. Dry chemical powder, carbon Suitable extinguishing media

dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing Do not use water in a jet.

media

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.

5.3 Advice for firefighters

Special protective equipment Proper protective equipment including chemical resistant



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for firefighters

gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

Specific extinguishing methods

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

: Avoid contact with skin and eyes. Personal precautions



6.2 Environmental precautions

Environmental precautions

Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.



Local authorities should be advised if significant spillages cannot be contained.



6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent.

Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

6.4 Reference to other sections

For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet., For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.

SECTION 7: Handling and storage

General Precautions

Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.







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7.1 Precautions for safe handling

Advice on safe handling

: Avoid prolonged or repeated contact with skin.

Avoid inhaling vapour and/or mists.

When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

Properly dispose of any contaminated rags or cleaning ins-Logistic ru

materials in order to prevent fires.

Product Transfer : Proper grounding and bonding procedures should be used

during all bulk transfer operations to avoid static accumulation.

7.2 Conditions for safe storage, including any incompatibilities austrans-Logistic.ru

Other data COUNTAIN COOL, Well-ventilated

place. Use properly labeled and closable containers.

Store at ambient temperature.

Packaging material: Suitable material: For container linings, use

mild steel or high density polyethylene.

Unsuitable material: PVC.

Container Advice : Polyethylene containers should not be exposed to high

temperatures because of possible risk of distortion.

7.3 Specific end use(s)

Specific use(s) : Not applicable

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

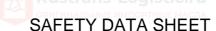
Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	Rus
Oil mist, mineral	ЫЕ ИМПОРТНЫЕ М	TWA (Mist)	0,2 mg/m3	ARE OEL	ОРИГИН
Oil mist, mineral		TWA (Measured as inhalable fraction of the aerosol.)	5 mg/m3	ARE OEL	
Further information	Not Classifiable as a Human Carcinogen			gistic.ru РТНЫЕ МАСЛА	
Oil mist, mineral		TWA (inhalable fraction)	5 mg/m3	US. ACGIH Threshold Limit Values	

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Biological occupational exposure limits

No biological limit allocated.

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA) , Germany http://www.dguv.de/inhalt/index.jsp

8.2 Exposure controls

Engineering measuresThe level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

Adequate ventilation to control airborne concentrations.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

General Information:

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Personal protective equipment

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Eye protection

: If material is handled such that it could be splashed into eyes, protective eyewear is recommended.

Hand protection

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Remarks



Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using

gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.



For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.



Skin and body protection

Skin protection is not ordinarily required beyond standard work clothes.

It is good practice to wear chemical resistant gloves.



No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices,

precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for the combination of organic gases and vapours and particles [Type A/Type P boiling point >65°C

(149°F)].

Thermal hazards

Not applicable



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General advice

Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Section 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water.

Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour amber

Data not available Odour

Odour Threshold Data not available

Ha Not applicable

-48 °CMethod: ASTM D97 pour point

Melting / freezing point Data not available

Initial boiling point and > 280 °Cestimated value(s)

boiling range

244 °C Flash point

Method: ASTM D92 (COC)

Data not available

Evaporation rate

Flammability (solid, gas) Data not available

: Typical 10 %(V) Upper explosion limit

Lower explosion limit Typical 1 %(V)

Vapour pressure < 0.5 Pa (20 °C)

estimated value(s)

Relative vapour density > 1estimated value(s)

Relative density 0,8413 (15,0°C)

Density 841,3 kg/m3 (15,0 °C)

Method: ASTM D4052

Solubility(ies)







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Water solubility : negligible

Solubility in other solvents : Data not available

Partition coefficient: n-

Auto-ignition temperature

octanol/water

: log Pow: > 6(based on information on similar products)

- Rust

Decomposition temperature : Data not available

Viscosity

Viscosity, dynamic : Data not available

Viscosity, kinematic : 11,93 mm2/s (100 °C)

Method: ASTM D445

71,69 mm2/s (40,0 °C) Method: ASTM D445

Explosive properties : Not classified

Oxidizing properties : Data not available

9.2 Other information

Conductivity: This material is not expected to be a static accumulator.

SECTION 10: Stability and reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following

sub-paragraph.

10.2 Chemical stability

10.1 Reactivity

Stable. Rustrans-

10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with strong oxidising agents.

10.4 Conditions to avoid

Conditions to avoid Extremes of temperature and direct sunlight.

10.5 Incompatible materials

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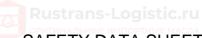
Materials to avoid : Strong oxidising agents.

10.6 Hazardous decomposition products

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products

Hazardous decomposition : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Basis for assessment

Information given is based on data on the components and the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

Information on likely routes of :

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.



Acute toxicity

Product:

Acute oral toxicity

LD50 rat: > 5.000 mg/kg Remarks: Low toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity

Remarks: Based on available data, the classification criteria

are not met.

Acute dermal toxicity

LD50 Rabbit: > 5.000 mg/kg Remarks: Low toxicity:

Based on available data, the classification criteria are not met.



Skin corrosion/irritation

Product:

Remarks: Slightly irritating to skin., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis., Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met.



Respiratory or skin sensitisation

Product:

Remarks: Not a skin sensitiser., Based on available data, the classification criteria are not met.

Germ cell mutagenicity

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Product:

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Remarks: Non mutagenic, Based on available data, the classification criteria are not met.



Carcinogenicity

Product:



Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

Material	GHS/CLP Carcinogenicity Classification
Highly refined mineral oil	No carcinogenicity classification.



Reproductive toxicity

Product:

Remarks: Not a developmental toxicant.. Does not impair fertility., Based on available data, the classification criteria are not met.



STOT - singl<mark>e</mark> exposure trans-Logistic.ru

Product:

Remarks: Based on available data, the classification criteria are not met.



STOT - repeated exposure

Product:

Remarks: Based on available data, the classification criteria are not met.



Aspiration toxicity

Product:

Not an aspiration hazard.





Further information

Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Continuous contact with used engine oils has caused skin cancer in animal tests.







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Remarks: Slightly irritating to respiratory system.



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SECTION 12: Ecological information

12.1 Toxicity

Basis for assessment



Ecotoxicological data have not been determined specifically for this product.

Information given is based on a knowledge of the components

and the ecotoxicology of similar products.

Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).(LL/EL/IL50 expressed as the

nominal amount of product required to prepare aqueous test

extract).



Toxicity to fish (Acute toxicity)

Remarks: Based on available data, the classification criteria are not met.

Practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to daphnia and other aquatic invertebrates (Acute

are not met. Practically non toxic:

LL/EL/IL50 > 100 mg/l

toxicity)

Remarks: Based on available data, the classification criteria

Remarks: Based on available data, the classification criteria

are not met. Practically non toxic:

LL/EL/IL50 > 100 mg/l

toxicity)

Toxicity to algae (Acute

Toxicity to fish (Chronic Remarks: Based on available data, the classification criteria

are not met.

Toxicity to daphnia and other aquatic invertebrates

(Chronic toxicity)

toxicity)

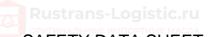
Toxicity to bacteria (Acute toxicity)

Remarks: Based on available data, the classification criteria are not met.

Remarks: Based on available data, the classification criteria are not met.

12.2 Persistence and degradability







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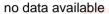
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Product:

Biodegradability

Remarks: Not readily biodegradable., Major constituents are inherently biodegradable, but contains components that may persist in the environment., Persistent per IMO criteria., International Oil Pollution Compensation (IOPC) Fund definition: "A non-persistent oil is oil, which, at the time of shipment, consists of hydrocarbon fractions, (a) at least 50% of which, by volume, distills at a temperature of 340°C (645°F) and (b) at least 95% of which, by volume, distils at a temperature of 370°C (700°F) when tested by the ASTM Method D-86/78 or any subsequent revision thereof."



12.3 Bioaccumulative potential

Product:

Bioaccumulation

: Remarks: Contains components with the potential to

bioaccumulate.

Partition coefficient: n-

: log Pow: > 6Remarks: (based on information on similar in s-Logistic Pupproducts)

12.4 Mobility in soil

Product:

Mobility

: Remarks: Liquid under most environmental conditions., If it enters soil, it will adsorb to soil particles and will not be mobile.

Remarks: Floats on water.

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Product:

Additional ecological information

: Does not have ozone depletion |

Does not have ozone depletion potential, photochemical ozone creation potential or global warming potential., Product is a mixture of non-volatile components, which will not be released to air in any significant quantities under normal conditions of use.

Poorly soluble mixture., Causes physical fouling of aquatic

organisms.

RUSECTION 13: Disposal conside<mark>rations ustrans-Logistic.ru</mark>

13.1 Waste treatment methods

Product : Recover or recycle if possible.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to

determine the proper waste classification and disposal

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methods in compliance with applicable regulations. Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Do not dispose into the environment, in drains or in water

courses

Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.

Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.



Contaminated packaging

Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.



Disposal should be in accordance with applicable regional, national, and local laws and regulations.



SECTION 14: Transport information

14.1 UN number

ADR **IMDG**

IATA

14.2 Proper shipping name

ADR IMDG

IATA

Not regulated as a dangerous good

Not regulated as a dangerous good Not regulated as a dangerous good

Not regulated as a dangerous good

Not regulated as a dangerous good

Not regulated as a dangerous good

14.3 Transport hazard class

ADR IMDG IATA

14.4 Packing group **ADR IMDG** IATA

14.5 Environmental hazards

ADR IMDG

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Not regulated as a dangerous good Not regulated as a dangerous good Not regulated as a dangerous good

Not regulated as a dangerous good Not regulated as a dangerous good



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14.6 Special precautions for user

Remarks : Special Precautions: Refer to Section 7, Handling & Storage,

for special precautions which a user needs to be aware of or

needs to comply with in connection with transport.

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

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

SECTION 15: Regulatory information

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

Other regulations : The regulatory information is not intended to be

comprehensive. Other regulations may apply to this material.

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

REACH : Notified with Restrictions. TSCA : All components listed.

SECTION 16: Other information

Full text of H-Statements

H304 May be fatal if swallowed and enters airways.

ustrans H413 stic.ru May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

Aquatic Chronic Long-term (chronic) aquatic hazard

Asp. Tox. Aspiration hazard

Abbreviations and Acronyms : The standard abbreviations and acronyms used in this

document can be looked up in reference literature (e.g.

scientific dictionaries) and/or websites.

ACGIH = American Conference of Governmental Industrial

Hygienists

ADR = European Agreement concerning the International

Carriage of Dangerous Goods by Road

AICS = Australian Inventory of Chemical Substances

ASTM = American Society for Testing and Materials

BEL = Biological exposure limits

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes

CAS = Chemical Abstracts Service

CEFIC = European Chemical Industry Council

CLP = Classification Packaging and Labelling

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EC = European Commission
EC50 = Effective Concentration fifty
ECETOC = European Center on Ecotoxicology and
Toxicology Of Chemicals
ECHA = European Chemicals Agency

EINECS = The European Inventory of Existing Commercial Chemical Substances

EL50 = Effective Loading fifty
ENCS = Japanese Existing and New Chemical Substances

Inventory

EWC = European Waste Code

GHS = Globally Harmonised System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer IATA = International Air Transport Association

IL50 = Inhibitory Level fifty

IC50 = Inhibitory Concentration fifty

IMDG = International Maritime Dangerous Goods INV = Chinese Chemicals Inventory

IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables

determination of polycyclic aromatics DMSO-extractables KECI = Korea Existing Chemicals Inventory

LC50 = Lethal Concentration fifty
LD50 = Lethal Dose fifty per cent.

LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading

LL50 = Lethal Loading fifty

MARPOL = International Convention for the Prevention of Pollution From Ships

NOEC/NOEL = No Observed Effect Concentration / No Observed Effect Level

OE_HPV = Occupational Exposure - High Production Volume

PBT = Persistent, Bioaccumulative and Toxic

PICCS = Philippine Inventory of Chemicals and Chemical Substances

PNEC = Predicted No Effect Concentration

REACH = Registration Evaluation And Authorisation Of Chemicals

RID = Regulations Relating to International Carriage of Dangerous Goods by Rail

SKIN_DES = Skin Designation
STEL = Short term exposure limit
TRA = Targeted Risk Assessment

TSCA = US Toxic Substances Control Act

TWA = Time-Weighted Average

vPvB = very Persistent and very Bioaccumulative

Further information

Training advice : Provide adequate information, instruction and training for operators.

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Other information

A vertical bar (|) in the left margin indicates an amendment

from the previous version.

Sources of key data used to compile the Safety Data Sheet

The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID date base, EC 1272 regulation, etc).

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

































