

according to Regulation (EC) No. 1907/2006 (REACH)

Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich

Version number: GHS 1.2 Revision: 18.04.2016

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Identification of the substance Hydrocarbons, C6, n-alkanes, iso-alkanes, cyc-

lics, n-hexane rich

Registration number (REACH) 01-2119474209-33-0003

EC number 925-292-5

Index No

CAS number 64742-49-0
Additional relevant and available information Hexane technical Hexan Pharma

Hexane, Polymerization

Hexane PE Hexane Extraction Hexane, Polymerization Hexan 50/55 DPO n-Hexane/MCP

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

Relevant identified uses

Lubricants

Playing agents

Blowing agents
Use in Agrochemicals
Use in laboratories
Polymer processing
Mining chemicals

manufacture of substances
Use as an intermediate

Distribution of substance

Formulation & (re)packing of substances and mixtures

Uses in Coatings Use in Cleaning Agents

1.3 Details of the supplier of the safety data sheet

DHC Solvent Chemie GmbH Timmerhellstraße 28 D-45478 Mülheim an der Ruhr Germany

Telephone: +49 (208) 9940-0 Telefax: +49 (208) 9940-150

Competent person responsible for the safety data

sheet

e-mail (competent person)

Yvonne Knappe

productsafety@dhc-solvent.de

1.4 Emergency telephone number

Emergency information service DHC Solvent Chemie GmbH

+49 (208) 9940-112

This number is only for medical emergencies.

Giftnotrufzentrale Berlin +49 (0)30 19 240.



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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
flammable liquid	Cat. 2	(Flam. Liq. 2)	H225
skin corrosion/irritation	Cat. 2	(Skin Irrit. 2)	H315
reproductive toxicity	Cat. 2	(Repr. 2)	H361
specific target organ toxicity - single exposure (narcotic effects, drowsiness)	Cat. 3	(STOT SE 3)	H336
specific target organ toxicity - repeated exposure	Cat. 2	(STOT RE 2)	H373
aspiration hazard	Cat. 1	(Asp. Tox. 1)	H304
hazardous to the aquatic environment - chronic hazard	Cat. 2	(Aquatic Chronic 2)	H411

Remarks

For full text of H-phrases: see SECTION 16.

Substance with a community indicative occupational exposure limit value.

The classification as a carcinogen or mutagen is not required. The substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

The most important adverse physicochemical, human health and environmental effects

May be fatal if swallowed and enters airways.

The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

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

Signal word Danger

Pictograms

GHS02, GHS07, GHS08, GHS09









Hazard statements

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure (if inhaled).

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Precautionary statements - prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P260 Do not breathe mist/vapours/spray.

P281 Use personal protective equipment as required.



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Precautionary statements - response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.

P331 Do NOT induce vomiting.

P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.

Precautionary statements - storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

2.3 Other hazards

According to the results of its assessment, this substance is not a PBT or a vPvB.

Vapour heavier than air, may form an explosive mixture in air: it may be ignited at some distance away from the spill resulting in flashbacks. Flowing product can create electrostatic charge, resulting sparks may ignite or cause an explosion.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Name of substance Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-

hexane rich

Registration number (REACH) 01-2119474209-33-0003

EC number 925-292-5 CAS number 64742-49-0

Index No -

Purity 100 %

Hazardous ingredients

Name of substance	Identifier	Wt%	Classification acc. to GHS
n-hexane	CAS No 110-54-3 EC No 203-777-6	45 - 60	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 Repr. 2 / H361f STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411

For full text of abbreviations: see SECTION 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.



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Following eye contact

Irrigate copiously with clean, fresh water, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion

Do NOT induce vomiting. Rinse mouth with water (only if the person is conscious).

4.2 Most important symptoms and effects, both acute and delayed

Choking and suffocation risks. Narcotic effects. Deficits in perception and coordination, reaction time, or sleep-iness

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

carbon dioxide (CO2), BC-powder, foam, alcohol resistant foam, water mist

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Solvent vapours are heavier than air and may spread along floors. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. May produce toxic fumes of carbon monoxide if burning.

Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO2)

5.3 Advice for firefighters

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance. Keep containers cool with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Avoid inhaling sprayed product. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Remove/take off immediately all contaminated clothing and wash it before reuse.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains.

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust., kieselgur (diatomite), sand, universal binder).



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Appropriate containment techniques

Use of adsorbent materials. - covering of drains

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Recommendations

Measures to prevent fire as well as aerosol and dust generation

Use only in well-ventilated areas. Use local and general ventilation. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.

Warning

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

Suitable materials and coatings for container/equipment: Carbon Steel, Stainless Steel, Polyester, Polytetra-fluoroethylene (PTFE), Polyvinyl Alcohol (PVA)

Unsuitable Materials and Coatings for container/equipment: Butyl Rubber, Natural Rubber, Ethylene-propylene-diene monomer (EPDM), Polystyrene, Polyethylene, Polyacrylonetrile.

7.3 Specific end use(s)

See attached exposure scenarios



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

No information available.

Coun- try	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Source
DE	n-hexane	110-54-3	AGW	50	180	400	1,440	TRGS 900
DE	Hydrocarbons, C6, n-al- kanes, iso-alkanes, cyclics, n-hexane rich	64742-49-0	AGW		300		600	RCP method according to TRGS 900
EU	n-hexane	110-54-3	IOELV	20	72			2006/15/EC
GB	n-hexane	110-54-3	WEL	20	72			EH40/2005
IE	n-hexane	110-54-3	OELV	20	72			S.I. No. 619 of 2001

Notation

STEL

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

unless otherwise specified.

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-

Relevant DNELs/DMELs/PNECs and other threshold levels

• human health values

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	13 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
DNEL	93 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	6 mg/kg	human, oral	consumer (private households)	chronic - systemic effects
DNEL	7 mg/kg	human, dermal	consumer (private households)	chronic - systemic effects
DNEL	20 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects

Name of sub- stance	CAS No	End- point	Threshold level	Protection goal, route of expos- ure	Used in	Exposure time
n-hexane	110-54-3	DNEL	11 mg/kg	human, dermal	worker (in- dustry)	chronic - systemic ef- fects
n-hexane	110-54-3	DNEL	75 mg/m³	human, inhalatory	worker (in- dustry)	chronic - systemic ef- fects

8.2 Exposure controls

Appropriate engineering controls

Technical measures and the appliance of appropriate working methods take priority over the use of personal protective equipment.

Safety and necessary control measures vary according to exposure conditions. Appropriate measures are:

Open windows, door, to allow sufficient ventilation. If this is not possible employ a fan to increase air ex-

change (see attached exposure scenarios).



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Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection.

Skin protection

hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

Short-term contact with the skin: Disposable gloves Long-term contact with the skin: Gloves with long cuffs Check leak-tightness/impermeability prior to use.

· type of material

NBR: acrylonitrile-butadiene rubber, FKM: fluoro-elastomer

material thickness

0.40 mm.

· breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Body protection:

Suitable protective clothing: Flame resistant clothing

Suitable safety shoes: Anti static safety shoes according to EN 345 S3

Respiratory protection

For activities in enclosed areas at elevated temperatures of the substance, local extraction or explosion protected ventilation equipment is recommended. In case this is not sufficient for the intended use, then apply a suitable respiratory protection according to EN 140 type A or better (see exposure scenarios).

Environmental exposure controls

Do not empty into drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Appearance

Physical state liquid
Colour colourless
Odour characteristic

Other physical and chemical parameters

pH (value) not determined

Melting point/freezing point <-20 °C (ASTM D 5950)
Initial boiling point and boiling range 55 - 85 °C at 1,013 mbar
Flash point -20 °C (DIN 51755)

Explosive limits

lower explosion limit (LEL)upper explosion limit (UEL)8.3 vol%

Vapour pressure 19 - 50 kPa at 25 °C Density 0.65 - $0.7 \, ^{\text{kg}}/_{\text{m}^3}$ at 15 °C Solubility(ies) not determined



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Partition coefficient

n-octanol/water (log KOW)

This information is not available.

Auto-ignition temperature >200 °C

Viscosity

• kinematic viscosity 0.4 - 0.7 mm²/_s

Explosive properties

in use, may form flammable/explosive vapour-air mixture
Oxidising properties
none

9.2 Other information

Surface tension 18 - 20 N/m (Wilhelmy Plate)

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

risk of ignition

if heated

risk of ignition

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure (see below "Conditions to avoid").

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

Hints to prevent fire or explosion

Use only non-sparking tools.

10.5 Incompatible materials

oxidisers

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Exposure route	Endpoint	Value	Species
oral	LD50	16,750 ^{mg} / _{kg}	rat
dermal	LD50	3,350 ^{mg} / _{kg}	rabbit
inhalation: vapour	LC50	259,354 ^{mg} / _l /4h	rat

Skin corrosion/irritation

Causes skin irritation.



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Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Suspected of damaging the unborn child.

Suspected of damaging fertility.

Shall not be classified as germ cell mutagenic.

Shall not be classified as carcinogenic.

Specific target organ toxicity (STOT)

• Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

• Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure (if inhaled).

Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity (acute)

Endpoint	Value	Species	Exposure time
EL50	9.902 ^{mg} / _l	algae	72 hours
LL50	13.37 ^{mg} / _[rainbow trout (Oncorhynchus mykiss)	96 hours

Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

Endpoint	Value	Species	Exposure time
NOELR	2.992 ^{mg} / _[rainbow trout (Oncorhynchus mykiss)	28 d
NOELR	5.224 ^{mg} / _l	daphnia magna	21 d

12.2 Persistence and degradability

The substance is readily biodegradable.

12.3 Bioaccumulative potential

Data are not available.

BCF 501.2

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Other adverse effects

Data are not available.



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

List of wastes

Proposed waste code(s) for the used product:

07 01 04x Other organic solvents, washing liquids and mother liquors

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: TRANSPORT INFORMATION

14.1	UN number	1	208

14.2 UN proper shipping name HEXANES

Technical name Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-

hexane rich

14.3 Transport hazard class(es)

Class 3 (flammable liquids)

14.4 Packing group
 14.5 Environmental hazards
 II (substance presenting medium danger)
 hazardous to the aquatic environment

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

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

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number 1208
Proper shipping name HEXANES

Technical name (hazardous constituents)

Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-

héxane rich

Class 3
Classification code F1
Packing group II

Danger label(s) 3 + "fish and tree"



Environmental hazards yes (hazardous to the aquatic environment)

Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L
Transport category (TC) 2
Tunnel restriction code (TRC) D/E



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Hazard identification No 33
Emergency Action Code 3YE

• International Maritime Dangerous Goods Code (IMDG)

UN number 1208
Proper shipping name HEXANES

Particulars in the shipper's declaration UN1208, HEXANES, 3, II, -20°C c.c., MARINE POL-

LUTANT

Class 3

Marine pollutant yes (hazardous to the aquatic environment)

Packing group I

Danger label(s) 3 + "fish and tree"





Special provisions (SP) Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L
EmS F-E, S-D
Stowage category E

• International Civil Aviation Organization (ICAO-IATA/DGR)

UN number 1208
Proper shipping name Hexanes

Class 3

Environmental hazards yes (hazardous to the aquatic environment)

Packing group II
Danger label(s) 3





Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L

SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)
 - 2012/18/EU (Seveso III)

No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the applica- tion of lower and upper-tier requirements	Notes
E2	environmental hazards (hazardous to the aquatic environment, cat. 2)	200 500	57)

Notation

57) Hazardous to the Aquatic Environment in category Chronic 2.

• Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content 100 %



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• Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content 100 %

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2006/15/EC	Comission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	workplace exposure limit
Aquatic Chronic	hazardous to the aquatic environment - chronic hazard
Asp. Tox.	aspiration hazard
BCF	BioConcentration Factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Flam. Liq.	flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	indicative occupational exposure limit value
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant)
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration



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Abbr.	Descriptions of used abbreviations
ppm	parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
S.I. No. 619 of 2001	Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001
Skin Corr.	corrosive to skin
Skin Irrit.	irritant to skin
STEL	short-term exposure limit
STOT RE	specific target organ toxicity - repeated exposure
STOT SE	specific target organ toxicity - single exposure
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	time-weighted average
VOC	Volatile Organic Compounds
vPvB	very Persistent and very Bioaccumulative
WEL	workplace exposure limit

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU Regulation (EC) No. 1272/2008 (CLP, EU GHS)
- See attached exposure scenarios

http://www.dhc-solvent.de/dhc_sdbreach.html

http://www.dhc-solvent.de/en/dhc_sdbreach.html

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). International Air Transport Association (IATA).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H225	highly flammable liquid and vapour
H304	may be fatal if swallowed and enters airways
H315	causes skin irritation
H336	may cause drowsiness or dizziness
H361	suspected of damaging fertility or the unborn child
H361f	suspected of damaging fertility
H373	may cause damage to organs through prolonged or repeated exposure (if inhaled)
H411	toxic to aquatic life with long lasting effects