

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 2 (replaces version 1)

Revision: 16.04.2025

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

· 1.1 Product identifier

· **Trade name:** Dimethyl Formamide (DMF)

· **Product Code:** 50-1409-10, 50-1409-25

· **CAS Number:**

68-12-2

· **EC number:**

200-679-5

· **Index number:**

616-001-00-X

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

· **Product category** PC21 Laboratory chemicals

· **Application of the substance / the mixture** Laboratory chemicals

· **Uses advised against**

Processes involving extreme heat use advised against.

Any use involving aerosol formation or vapour release in excess of the assigned Workplace Exposure Limit where workers are exposed without suitable Respiratory Protective Equipment.

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Processes where workers who may be pregnant or breastfeeding could potentially come into direct contact with the undiluted product.

The product is strictly intended for industrial or professional use only.

· 1.3 Details of the supplier of the safety data sheet

· **Supplier:**

Severn Biotech Ltd.

Unit 2,

Park Lane,

Kidderminster,

Worcestershire.

DY11 6TJ

UK

Tel: 0044 1562 825286

Fax: 0044 1562 825284

email: info@severnbiotech.com

· **Further information obtainable from:** Product safety department.

· 1.4 Emergency telephone number:

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· **Classification according to GB-CLP**

Flam. Liq. 3 H226 Flammable liquid and vapour.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eye Irrit. 2 H319 Causes serious eye irritation.

Repr. 1B H360D May damage the unborn child.

(Contd. on page 2)

GB

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 2 (replaces version 1)

Revision: 16.04.2025

Trade name: Dimethyl Formamide (DMF)

(Contd. of page 1)

- **2.2 Label elements**
- **Labelling according to GB-CLP** The substance is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



- **Signal word** Danger
- **Hazard-determining components of labelling:**
Dimethyl formamide
- **Hazard statements**
H226 Flammable liquid and vapour.
H312+H332 Harmful in contact with skin or if inhaled.
H319 Causes serious eye irritation.
H360D May damage the unborn child.
- **Precautionary statements**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.1 Substances**
- **CAS No. Description**
CAS: 68-12-2 Dimethyl formamide
- **Identification number(s)**
- **EC number:** 200-679-5
- **Index number:** 616-001-00-X

· SVHC

CAS: 68-12-2 | Dimethyl formamide

* SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Use of alcoholic beverages may enhance toxic effects.
Immediately remove any clothing soiled by the product.

(Contd. on page 3)

— GB —

Safety data sheet
according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 2 (replaces version 1)

Revision: 16.04.2025

Trade name: Dimethyl Formamide (DMF)

(Contd. of page 2)

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

May be absorbed through the skin. Seek medical advice.

· After eye contact:

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

· Information for doctor:

Indication of immediate medical attention and special treatment needed:

- Biomonitoring possible at chronic exposure
- Determination of formamide in blood at the end of the workday/workweek
- Determination of formamide in urine at the end of the workday/workweek
- Lab testing in blood for delayed effects

· 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.**· 4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation with added, activated carbon.

*** SECTION 5: Firefighting measures****· 5.1 Extinguishing media****· Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· For safety reasons unsuitable extinguishing agents: Water with full jet**· 5.2 Special hazards arising from the substance or mixture**

Vapours are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur.

Flammable. Vapors may travel to source of ignition and flash back.

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

· 5.3 Advice for firefighters**· Protective equipment:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

· Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

GB

(Contd. on page 4)

Safety data sheet
according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 2 (replaces version 1)

Revision: 16.04.2025

Trade name: Dimethyl Formamide (DMF)

(Contd. of page 3)

*** SECTION 6: Accidental release measures****· 6.1 Personal precautions, protective equipment and emergency procedures**

- Ensure adequate ventilation
- Keep ignition sources away - no smoking.
- Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

- Do not allow to penetrate the ground/soil.
- Do not allow product to reach sewage system or any water course in the undiluted form.
- Prevent seepage into sewage system, workpits and cellars.
- Inform respective authorities in case of seepage into water course or sewage system.

· 6.3 Methods and material for containment and cleaning up:

- Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
- Contaminated absorbent material may pose the same hazard as the spilt product.
- Ensure adequate ventilation.

· 6.4 Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

*** SECTION 7: Handling and storage****· 7.1 Precautions for safe handling**

- Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.
- The product must only be handled by authorised, trained and experienced professionals under strictly controlled conditions.
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Prevent formation of aerosols.
- Safety showers and eye wash facilities should be available at the work area.

· Information about fire - and explosion protection:

- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities**· Storage:****· Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.**· Information about storage in one common storage facility:**

- Store away from oxidising agents.
- Store away from foodstuffs.

· Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.**· Storage class:** 3**· 7.3 Specific end use(s)** No further relevant information available.

GB

(Contd. on page 5)

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 2 (replaces version 1)

Revision: 16.04.2025

Trade name: Dimethyl Formamide (DMF)

(Contd. of page 4)

* SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 68-12-2 Dimethyl formamide

WEL	Short-term value: 30 mg/m ³ , 10 ppm
	Long-term value: 15 mg/m ³ , 5 ppm
Sk	

· DNELs

CAS: 68-12-2 Dimethyl formamide

Oral	Long-term systemic effects	160 µg/kg bw/day (general population)
Dermal	Long-term systemic effects	1.1 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	1.1 mg/m ³ (general population)
		6 mg/m ³ (worker)

· PNECs

CAS: 68-12-2 Dimethyl formamide

Sewage Treatment Plant	44 mg/L
Sediment (freshwater)	111 mg/kg
Sediment (marine water)	11.1 mg/kg

· **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Avoid alcohol consumption while working with the product.

Do not eat, drink, smoke or sniff while working.

Be sure to clean skin thoroughly after work and before breaks.

Storing food in the working area is prohibited.

A safe system of work must be formulated and followed to ensure safe working with this product. Relevant workers must receive suitable and sufficient training and supervision.

Pregnant women should strictly avoid inhalation or skin contact.

Take note of assigned Workplace Exposure Limits.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Ensure that eyewash stations and safety showers are close to the workstation location.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A for organic vapours

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

(Contd. on page 6)

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 2 (replaces version 1)

Revision: 16.04.2025

Trade name: Dimethyl Formamide (DMF)

(Contd. of page 5)

· Hand protection



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Butyl rubber, BR

Neoprene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

Break-through time: > 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection



Tightly sealed goggles conforming to EN166.

· Body protection:



Protective work clothing

Do not get on skin or clothing. Wear clothing and footwear that cannot be penetrated by the product. Suitable protective equipment may include: Chemical resistant boots, Chemical resistant apron, Full chemical protective suit with a hood, Chemical protective suit consisting of a jacket and trousers. The jacket should be buttoned up to the neck, sleeves sealed at the gloves, and trouser legs worn outside the boots. These precautions are required to prevent the clothing from accidentally trapping product against the skin.

· Environmental exposure controls

Do not allow to enter drains, sewers or watercourses.

· Risk management measures

The operators shall be instructed adequately.

The workplace shall be inspected regularly by competent personnel e.g. the safety representative.

* SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state

Liquid

· Colour:

Colourless

· Odour:

Amine-like

· Odour threshold:

Not determined.

· Melting point/freezing point:

-61 °C

· Boiling point or initial boiling point and boiling range

152.5 – 153.5 °C (CAS: 68-12-2 Dimethyl formamide)

· Flammability

Flammable.

· Lower and upper explosion limit

· Lower:

2.2 Vol % (CAS: 68-12-2 Dimethyl formamide)

· Upper:

16 Vol % (CAS: 68-12-2 Dimethyl formamide)

(Contd. on page 7)

GB

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 2 (replaces version 1)

Revision: 16.04.2025

Trade name: Dimethyl Formamide (DMF)

(Contd. of page 6)

<ul style="list-style-type: none"> · Flash point: · Auto-ignition temperature: · Decomposition temperature: · pH · Viscosity: · Kinematic viscosity · Dynamic at 20 °C: · Solubility · water: · Partition coefficient n-octanol/water (log value) · Vapour pressure at 20 °C: · Density and/or relative density · Density at 20 °C: · Relative density · Vapour density 	58 °C 440 °C (CAS: 68-12-2 Dimethyl formamide) Not determined. 7 Not determined. 0.802 mPas Fully miscible. Not determined. 3.5 hPa (CAS: 68-12-2 Dimethyl formamide) 0.95 g/cm ³ Not determined. Not determined.
<ul style="list-style-type: none"> · 9.2 Other information · Appearance: · Form: · Important information on protection of health and environment, and on safety. · Ignition temperature: · Explosive properties: · Solvent content: · VOC (EC) · Molecular weight · Change in condition · Evaporation rate 	NOTE: The physical data presented above are typical values and should not be construed as a specification. Conductivity: 0.06 mS/m at 25 °C Liquid Not determined. Not determined. 0.00 % 73.1 g/mol Not determined.
<ul style="list-style-type: none"> · Information with regard to physical hazard classes · Explosives · Flammable gases · Aerosols · Oxidising gases · Gases under pressure · Flammable liquids · Flammable solids · Self-reactive substances and mixtures · Pyrophoric liquids · Pyrophoric solids · Self-heating substances and mixtures · Substances and mixtures, which emit flammable gases in contact with water · Oxidising liquids · Oxidising solids · Organic peroxides · Corrosive to metals · Desensitised explosives 	Not applicable Not applicable Not applicable Not applicable Not applicable Flammable liquid and vapour. Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable

GB

(Contd. on page 8)

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 2 (replaces version 1)

Revision: 16.04.2025

Trade name: Dimethyl Formamide (DMF)

(Contd. of page 7)

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
- **10.4 Conditions to avoid** Heat and static discharge.
- **10.5 Incompatible materials:**
Strong acids and oxidising agents
Light metals and their alloys.
Halogenated hydrocarbons
- **10.6 Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Nitrogen oxides (NO_x)
Ammonia
Amines
Formaldehyde

* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful in contact with skin or if inhaled.

· **LD/LC50 values relevant for classification:**

ATE (Acute Toxicity Estimates)

Inhalative	LC50/4 h	5.85 mg/l (rat)
------------	----------	-----------------

CAS: 68-12-2 Dimethyl formamide

Oral	LD50	> 3,010 mg/kg (rat)
Dermal	LD50	3,160 mg/kg (rat)
Inhalative	LC50/4 h	5.85 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** May damage the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:**
EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The substance may have effects on the liver. This may result in impaired functions.
Regular monitoring is recommended.
- **Additional toxicological information:**
ROUTES OF EXPOSURE: Can be absorbed into the body by ingestion, by inhalation (mist and vapour) and through the skin.
The effects may be delayed. Medical observation is indicated.

(Contd. on page 9)

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 2 (replaces version 1)

Revision: 16.04.2025

Trade name: Dimethyl Formamide (DMF)

(Contd. of page 8)

Ingestion of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

Use of alcoholic beverages may enhance toxic effects.

· 11.2 Information on other hazards

· Endocrine disrupting properties

Substance is not listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 68-12-2 Dimethyl formamide

EC50 (72 h) 1,000 mg/l (Algae)

· 12.2 Persistence and degradability

Readily biodegradable

· 12.3 Bioaccumulative potential

Product is not expected to bioaccumulate.

· 12.4 Mobility in soil

No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

· Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Recommended Hierarchy of Controls:

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

· Uncleaned packaging:

· Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Do not mix with other waste streams.

Container remains hazardous when empty. Continue to observe all precautions.

Disposal must be made according to official regulations.

Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

(Contd. on page 10)

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 2 (replaces version 1)

Revision: 16.04.2025

Trade name: Dimethyl Formamide (DMF)

(Contd. of page 9)

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN number or ID number**

- **ADR/RID/ADN, IMDG, IATA** UN2265

- **14.2 UN proper shipping name**

- **ADR/RID/ADN** UN2265 N,N-DIMETHYLFORMAMIDE
- **IMDG, IATA** N,N-DIMETHYLFORMAMIDE

- **14.3 Transport hazard class(es)**

- **ADR/RID/ADN**



- **Class** 3 (F1) Flammable liquids.
- **Label** 3

- **IMDG, IATA**



- **Class** 3 Flammable liquids.
- **Label** 3

- **14.4 Packing group**

- **ADR/RID/ADN, IMDG, IATA** III

- **14.5 Environmental hazards:**

- **Marine pollutant:** No

- **14.6 Special precautions for user**

- **Hazard identification number (Kemler code):** Warning: Flammable liquids.

- **Hazchem Code:** 30

- **EMS Number:** •2Y

- **Stowage Category:** F-E,S-D

- **Stowage Category:** A

- **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

- **Transport/Additional information:**

- **ADR/RID/ADN**

- **Limited quantities (LQ)** 5L

- **Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

- **Transport category** 3

- **Tunnel restriction code** D/E

(Contd. on page 11)

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 2 (replaces version 1)

Revision: 16.04.2025

Trade name: Dimethyl Formamide (DMF)

(Contd. of page 10)

· IMDG	5L
· Limited quantities (LQ)	Code: E1
· Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2265 N,N-DIMETHYLFORMAMIDE, 3, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

- **Regulated explosives precursors**

Substance is not listed.

- **Regulated poisons**

Substance is not listed.

- **Reportable explosives precursors**

Substance is not listed.

- **Reportable poisons**

Substance is not listed.

- **Control Of Major Accident Hazards Regulations 2015 (COMAH)**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **COMAH category** P5c
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

- **National regulations:**

- **Substances of very high concern (SVHC) according to UK REACH**

CAS: 68-12-2 | Dimethyl formamide

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

- **Training hints**

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

- **Department issuing SDS:** Product safety department.

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 12)

Safety data sheet
according to UK REACH (SI 2020/1577) as amended

Printing date 16.04.2025

Version number 2 (replaces version 1)

Revision: 16.04.2025

Trade name: Dimethyl Formamide (DMF)

(Contd. of page 11)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 1B: Reproductive toxicity – Category 1B

· *** Data compared to the previous version altered.**

GB
