# MATERIAL SAFETY DATA SHEET

RS Hygiene Limited, The Street Worlington Suffolk IP28 8RX Telephone: 03331230202 EMail: tech@rshygiene.co.uk

#### 1 PRODUCT IDENTIFIER

PRODUCT NAME TEATFOAM PRODUCT CODE 010982

## 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

For professional use only

Hygiene Range Cleaning foam, use before milking

#### 1.4 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

RS Hygiene Ltd, The Street, Worlington, Suffolk IP28 728 Tel: 03331230202

#### **2 HAZARDS IDENTIFICATION**

#### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

In compliance with EC regulation No. 1272/2008 and its amendments

Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

Skin Corr. 1A H314

Serious eye damage, Category 1 (Eye Dam. 1, H318).

May produce an allergic reaction (EUH208).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

May produce an allergic reaction.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

#### 2.2. LABEL ELEMENTS

Labelling according to Regulation (EC) No. 1272/2008 and its amendments

Signal Word:

DANGER

Product identifiers:

Hazard statements:

FC 931-138-8

EC 9313338 1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL-,N-COCO

ACYL DERIVES., INNER SALTS

IOSOTRIDÉCANOL, ÉTHOXYLÉ (>7 - <15 EO)

Additional labeling:

EUH208 Contains EUCALYPTUS GLOBULUS OIL. May produce an allergic reaction.

H318 Causes serious eye damage.

Precautionary statements - Prevention :
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor/...

#### 2.3. Other hazards

P310

P305 + P351 + P338

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

# MATERIAL SAFETY DATA SHEET

#### **3 COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2. Mixtures

_		
Cam	naciti	<b>.</b> .
COIII	positio	JII .

 Identification
 (EC) 1272/2008
 67/548/EEC
 Note
 %

 CAS: 68585-34-2
 GHS07
 Xi
 2.5 <= x % < 10</td>

 EC: 500-223-8
 Wng
 Xi;R36/38

Skin Irrit. 2, H315 LAURYL ETHER SULFATE Eye Irrit. 2, H319

DE SODIUM

CAS: 56-81-5

[1]

2.5 <= x % < 10

EC: 200-289-5

GLYCEROL

CAS: 147170-44-3 GHS05 Xi 0 <= x % < 2.5

EC: 9313338 Dqr Xi;R41

Xn Xn;R22

Xi;R41

Xn,N

Xn;R65

Xi;R43-R38

N;R51/53

 $0 \le x \% < 2.5$ 

 $0 \le x \% < 2.5$ 

 $0 \le x \% < 2.5$ 

REACH: Eye Dam. 1, H318

01-2119489410-39-000 2

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYME THYL)-N,N-DIMETHYL-, N-COCO ACYL DERIVES., INNER

DERIVES., INNER SALTS CAS: 69011-36-5 EC: 931-138-8

EC: 931-138-8 Dgr REACH: Acute Tox. 4, H302 02-2119552461-55-000 Eye Dam. 1, H318

GHS07, GHS05

GHS07, GHS09, GHS08,

GHS02

0

IOSOTRIDÉCANOL, ÉTHOXYLÉ (>7 - <15 EO)

CAS: 84625-32-1 EC: 283-406-2

EC: 219-145-8

Dgr EUCALYPTUS GLOBULUS Flam. Liq. 3, H226

OIL Asp. Tox. 1, H304 R10
Skin Irrit. 2, H315
Skin Sens. 1, H317
Aquatic Chronic 2,
H411

Dgr
N-(3-AMINOPROPYL)-NDODÉCYLPROPANE-1,3-D
IAMINE

Dgr
Acute Tox. 3, H301
Skin Corr. 1A, H314
STOT RE 2, H373
Aquatic Acute 1, H400

GHS06, GHS05, GHS09, C,N
GHS08 C;R35
Dgr Xn;R48/22-R22
Acute Tox. 3, H301 N;R50
Skin Corr. 1A, H314

# Information on ingredients:

[1] Substance for which maximum workplace exposure limits are available.

M Acute = 10

# MATERIAL SAFETY DATA SHEET

## **SECTION 4: FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

#### 4.1. Description of first aid measures

#### In the event of exposure by inhalation:

In the event of an allergic reaction, seek medical attention.

## In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

#### In the event of splashes or contact with skin:

In the event of an allergic reaction, seek medical attention.

### In the event of swallowing:

Seek medical attention, showing the label.

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

No data available.

# 4.3. Indication of any immediate medical attention and special treatment needed

Information for the doctor:

The formulation is declaired at the poison control center of Nancy, France.

#### **SECTION 5: FIREFIGHTING MEASURES**

### 5.1. Extinguishing media

Non-flammable.

#### 5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use:

- sprayed water or water mist
- foam

- multipurpose ABC powder

Unsuitable methods of extinction

In the event of a fire, do not use:

- water jet

#### 5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO2)

### 5.3. Advice for firefighters

No data available.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

#### 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

## 6.3. Methods and material for containment and cleaning up

Clean-up instruction: Use an inert absorbent and wash area with plenty of water.

# MATERIAL SAFETY DATA SHEET

#### 6.4. Reference to other sections

No data available.

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

### Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

Fire prevention:

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid eye contact with this mixture at all times.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

# 7.2. Conditions for safe storage, including any incompatibilities

No data available.

#### Storage

Keep container tightly closed in a fresh and dry place.

**Packaging** 

Always keep in packaging made of an identical material to the original.

Recommended types of packaging:

- Vats

Suitable packaging materials:

- Polyethylene

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1. Control parameters

# Occupational exposure limits:

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS TWA STEL Ceiling Definition Criteria: 56-81-5 10 mg/m3

- France (INRS - ED984:2008):

TMP No: CAS VME-mg/m3 VLE-mg/m3 VME-ppm VLE-ppm Notes 56-81-5

- UK / WEL (Workplace exposure limits, EH40/2005, 2007):

CAS TWA STEL Ceiling Definition Criteria:

56-81-5 10 mg/m3

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL-,N-COCO ACYL DERIVES., INNER SALTS (CAS: 147170-44-3)

Final use

Workers. Exposure method Dermal contact.

Potential health effects Long term systemic effects. 12.5 mg/kg body weight/day DNEL

Exposure method Inhalation.

Potential health effects Long term systemic effects. DNEL 44 mg of substance/m3

Consumers. Final use Exposure method Ingestion.

Potential health effects Long term systemic effects.

# MATERIAL SAFETY DATA SHEET

DNEL 7.5 mg/kg body weight/day

Exposure method Dermal contact.

Potential health effects

DNEL

Long term systemic effects.
7.5 mg/kg body weight/day

Predicted no effect concentration (PNEC):

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL-,N-COCO ACYL DERIVES., INNER SALTS (CAS: 147170-44-3)

Environmental compartment Soil. PNEC 0.8

Environmental compartment Fresh water.
PNEC 0.0135 mg/l
Environmental compartment Sea water.
PNEC 0.0014 mg/l

Environmental compartment Fresh water sediment.

PNEC 1 mg/kg

Environmental compartment Marine sediment. PNEC 0.1 mg/kg

Environmental compartment Waste water treatment plant.

PNEC 3000 mg/l

LAURYL ETHER SULFATE DE SODIUM (CAS: 68585-34-2)

Environmental compartment Soil.

PNEC 0.946 mg/kg
Environmental compartment Fresh water.
PNEC 0.24 mg/l
Environmental compartment Sea water.

PNEC Sea water.

9 O.024 mg/l

Environmental compartment Intermittent waste water.

PNEC 0.071 mg/l

Environmental compartment Fresh water sediment.

PNEC 5.45 mg/l
Environmental compartment Marine sediment.
PNEC 0.545 mg/l

Environmental compartment Waste water treatment plant.

PNEC 10 g/l

## 8.2. Exposure controls

#### Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

### - Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled,

# MATERIAL SAFETY DATA SHEET

necessary physical protections (cutting, pricking, heat protection), level of dexterity required. Type of gloves recommended :

- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)
- Butyl Rubber (Isobutylene-isoprene copolymer)

#### 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

General information:

Physical state Fluid liquid.

Important health, safety and environmental information

pH 6.70.

Neutral.

Boiling point/boiling range: Not specified.

Flash point interval
Vapour pressure (50°C)
Not relevant.
Density
1.02
Water solubility
Dilutable.
Melting point/melting range
Self-ignition temperature
Decomposition point/decomposition range
Not specified.
Not specified.
Not specified.

9.2. Other information

No data available.

## **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

- frost

Do not mix with other products unless you have a written authorization from us.

#### 10.5. Incompatible materials

Keep away from:

- strong acids
- strong bases
- strong oxidising agents
- strong reducing agents

#### 10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO2)

#### SECTION 11: TOXICOLOGICAL INFORMATION

# 11.1. Information on toxicological effects

May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.

# 11.1.1. Substances

Acute toxicity:

# MATERIAL SAFETY DATA SHEET

N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE (CAS: 2372-82-9)

Oral route LD50 < 300 mg/kg

Species Rat

EUCALYPTUS GLOBULUS OIL (CAS: 84625-32-1)

Oral route LD50 = 3100 mg/kg

IOSOTRIDÉCANOL, ÉTHOXYLÉ (>7 - <15 EO) (CAS: 69011-36-5)

Oral route 300 < LD50 <= 2000 mg/kg

Species F

Dermal route: LD50 > 2000 mg/kg

Species Rabbit GLYCEROL (CAS: 56-81-5)

Oral route LD50 = 12000 mg/kg

Species F

Dermal route LD50 > 10000 mg/kg

Species Rabbit

Inhalation route LC50 > 0.57 mg/l

Species Rat

LAURYL ETHER SULFATE DE SODIUM (CAS: 68585-34-2)

Oral route LD50 > 2000 mg/kg

Species Rat

OECD Guideline 401 (Acute Oral Toxicity)

Dermal route LD50 > 2000 mg/kg Species Rat

OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/skin irritation:

IOSOTRIDÉCANOL, ÉTHOXYLÉ (>7 - <15 EO) (CAS: 69011-36-5)

Species Rabbit

Serious damage to eyes/eye irritation:

IOSOTRIDÉCANOL, ÉTHOXYLÉ (>7 - <15 EO) (CAS: 69011-36-5)

The substance produces at least in one animal effects on the cornea that are not expected toreverse or have not fully reversed within an observation period of normally 21 days. The substance produces at least in one animal effects on the iris that are not expected to reverse or have not fully reversed within an observation period of normally 21 days. The substance produces at least in one animal effects on the conjunctiva that are not expected to reverse or have not fully reversed within an observation period of normally 21 days. The substance produces at least in one animal effects on the conjunctiva that are not expected to reverse or have not fully reversed within an observation period of normally 21 days.

Respiratory or skin sensitisation:

IOSOTRIDÉCANOL, ÉTHOXYLÉ (>7 - <15 EO) (CAS: 69011-36-5)

Guinea Pig Maximisation Test (GMPT)

Species

Non-sensitiser.

Guinea pig

Germ cell mutagenicity:

IOSOTRIDÉCANOL, ÉTHOXYLÉ (>7 - <15 EO) (CAS: 69011-36-5)

No mutagenic effect.

Mutagenesis (in vivo): Negative.

Carcinogenicity:

IOSOTRIDÉCANOL, ÉTHOXYLÉ (>7 - <15 EO) (CAS: 69011-36-5)

Carcinogenicity Test : Negative. No carcinogenic effect.

Reproductive toxicant :

IOSOTRIDÉCANOL, ÉTHOXYLÉ (>7 - <15 EO) (CAS: 69011-36-5)

No toxic effect for reproduction

Study on fertility Species Rat Study on development Species Rat

# MATERIAL SAFETY DATA SHEET

11.1.2. Mixture

Respiratory or skin sensitisation:

Contains at least one sensitising substance. May cause an allergic reaction.

**SECTION 12: ECOLOGICAL INFORMATION** 

12.1. Toxicity

Algae toxicity

12.1.1. Substances

N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE (CAS: 2372-82-9) Fish toxicity LC50 > 0.1 mg/l

Factor M = 1

Duration of exposure: 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity EC50 = 0.078 mg/l

Factor M = 10

Duration of exposure: 48 h ECr50 = 0.015 mg/lFactor M = 10

Duration of exposure: 72 h

IOSOTRIDÉCANOL, ÉTHOXYLÉ (>7 - <15 EO) (CAS: 69011-36-5)

Fish toxicity 1 < LC50 <= 10 mg/l

**Species** Cyprinus carpio

Duration of exposure: 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

1 < EC50 <= 10 mg/lCrustacean toxicity

Daphnia magna **Species** 

Duration of exposure: 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity 1 < ECr50 <= 10 mg/l**Species** Desmodesmus subspicatus

Duration of exposure: 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

GLYCEROL (CAS: 56-81-5)

Fish toxicity LC50 = 54000 mg/lOncorhynchus mykiss **Species** 

Duration of exposure 96 h

Crustacean toxicity EC50 > 10000 mg/l**Species** Daphnia magna

Duration of exposure 24 h12.2. Persistence and degradability

LAURYL ETHER SULFATE DE SODIUM (CAS: 68585-34-2)

LC50 = 7.1 mg/lFish toxicity Brachydanio rerio **Species** 96 h

Duration of exposure

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity EC50 = 7.4 mg/l**Species** Daphnia magna 48 h Duration of exposure

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity ECr50 = 27 mg/l**Species** Scenedesmus subspicatus

Duration of exposure 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

NOEC = 0.955 mg/l

**Species** Scenedesmus subspicatus

Duration of exposure 72 h

# MATERIAL SAFETY DATA SHEET

#### **12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

#### 12.2. Persistence and degradability

#### 12.2.1. Substances

N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE (CAS: 2372-82-9)

Biodegradability Fast degrading. IOSOTRIDÉCANOL, ÉTHOXYLÉ (>7 - <15 EO) (CAS: 69011-36-5)

Biodegradability no degradability data is available, the substance is considered as not

degrading quickly. GLYCEROL (CAS: 56-81-5)

Biodegradability no degradability data is available, the substance is considered as not

degrading quickly.

LAURYL ETHER SULFATE DE SODIUM (CAS: 68585-34-2)

Biodegradability no degradability data is available, the substance is considered as not

degrading quickly.

#### 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

#### 13.1. Waste treatment methods

Do not pour into drains or waterways.

## Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

## Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):

16 05 08 \* discarded organic chemicals consisting of or containing dangerous substances

# **SECTION 14: TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014

## **SECTION 15: REGULATORY INFORMATION**

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

- CLASSIFICATION AND LABELLING INFORMATION INCLUDED IN SECTION 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.

# MATERIAL SAFETY DATA SHEET

- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.
- Container information:

No data available.

- Particular provisions :

No data available.

#### 15.2. Chemical safety assessment

No data available.

#### **SECTION 16: OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a quarantee of the properties thereof.

# In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Contains:

Contains EC 283-406-2 EUCALYPTUS GLOBULUS OIL. May produce an allergic reaction.

Risk phrase:

Safety data sheet available for professional user on request. Title for H, EUH and R indications mentioned in section 3:

H226 Flammable liquid and vapour.

H301 Toxic if swallowed. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 H315 Causes severe skin burns and eye damage. Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure .

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

R 10 Flammable.

R 22 Harmful if swallowed.
R 35 Causes severe burns.
R 36/38 Irritating to eyes and skin.
R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.
R 43 May cause sensitisation by skin contact.

R 48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R 50 Very toxic to aquatic organisms.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

Abbreviations:

DNEL Derived No-Effect Level

PNEC Predicted No-Effect Concentration
ICAO International Civil Aviation Organisation

RID Regulations concerning the International carriage of Dangerous goods by rail.

WGK Wassergefahrdungsklasse (Water Hazard Class).

GHS05 Corrosion