

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Product name : Black Diamond Disolvo Rust 7

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

No additional information available

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet**

Rutpen Ltd  
Membury Airfield Industrial Estate Lambourn  
RG17 7TJ – Berkshire  
T 01488 71926  
[technical@rutpen.co.uk](mailto:technical@rutpen.co.uk) - [www.rutpen.co.uk](http://www.rutpen.co.uk)

**1.4. Emergency telephone number**

Emergency number : 01488 71926

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Corrosive to metals, Category 1	H290
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1, Sub-Category 1B	H314
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity — Repeated exposure, Category 2	H373
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412

Full text of H- and EUH-statements: see section 16

**Adverse physicochemical, human health and environmental effects**

May be corrosive to metals. May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed. May cause respiratory irritation. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

<tx:\_GHS\_PICTOS> (CLP) :



GHS05

GHS07

GHS08

Signal word (CLP) : Danger  
Contains : Benzoic acid, 2-aminoethanol, ETIDRONIC ACID  
Hazard statements (CLP) : H290 - May be corrosive to metals.  
H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H335 - May cause respiratory irritation.

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### Precautionary statements (CLP)

H373 - May cause damage to organs through prolonged or repeated exposure.  
H412 - Harmful to aquatic life with long lasting effects.  
: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a POISON CENTER or doctor.  
P305+P351+P338+P310 - 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 or doctor.  
P321 - Specific treatment (see supplemental first aid instruction on this label).

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ETIDRONIC ACID	CAS-No.: 2809-21-4 EC-No.: 220-552-8 REACH-no: 01-2119510391-53	≥ 5 – < 15	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411
2-aminoethanol	CAS-No.: 141-43-5 EC-No.: 205-483-3 EC Index-No.: 603-030-00-8	≥ 5 – < 15	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
WATER	CAS-No.: 7732-18-5	≥ 5 – < 15	Not classified
tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate	CAS-No.: 51981-21-6 EC-No.: 257-573-7	≥ 5 – < 15	Not classified
Benzoic acid	CAS-No.: 65-85-0 EC-No.: 200-618-2	≥ 1 – < 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 1, H372
Sodium capryliminodipropionate	CAS-No.: 94441-92-6 EC-No.: 305-318-6	≥ 1 – < 5	Not classified
PHOSPHOROUS ACID	CAS-No.: 10294-56-1 EC-No.: 233-663-1 EC Index-No.: 015-157-00-0	≥ 0.1 – < 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
2-aminoethanol	CAS-No.: 141-43-5 EC-No.: 205-483-3 EC Index-No.: 603-030-00-8	( 5 ≤ C ≤ 100) STOT SE 3, H335

Full text of H- and EUH-statements: see section 16

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
------------------------------	--

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

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
--	--------------------------------

#### 5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
--------------------------------	--

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
----------------------	---

##### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
----------------------	---

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- Incompatible materials : Metals.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

2-aminoethanol (141-43-5)	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	2-Aminoethanol
IOEL TWA	2.5 mg/m <sup>3</sup>
IOEL STEL	7.6 mg/m <sup>3</sup>
IOEL STEL [ppm]	3 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
<b>Austria - Occupational Exposure Limits</b>	
Local name	2-Aminoethanol
MAK (OEL TWA)	2.5 mg/m <sup>3</sup>
MAK (OEL TWA) [ppm]	1 ppm
MAK (OEL STEL)	7.6 mg/m <sup>3</sup> (4x 15(Miw) min)
MAK (OEL STEL) [ppm]	3 ppm (4x 15(Miw) min)
Remark	Sh
Regulatory reference	BGBI. II Nr. 238/2018
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Ethanolamine # Ethanolamine
OEL TWA	2.5 mg/m <sup>3</sup>
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m <sup>3</sup>
OEL STEL [ppm]	3 ppm

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2-aminoethanol (141-43-5)	
Remark	D: la mention "D" signifie que la r�sorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette r�sorption peut se faire tant par contact direct que par pr�sence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Regulatory reference	Koninklijk besluit/Arr�t� royal 19/11/2020
Bulgaria - Occupational Exposure Limits	
Local name	Етаноламин (2-Аминоетанол)
OEL TWA	2.5 mg/m <sup>3</sup>
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m <sup>3</sup>
OEL STEL [ppm]	3 ppm
Remark	Кожа (възможна е значителна резорбция чрез кожата); * (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр.5 от 17 Януари 2020 г.)
Croatia - Occupational Exposure Limits	
Local name	2-aminoetanol; etanolamin
GVI (OEL TWA) [1]	2.5 mg/m <sup>3</sup>
GVI (OEL TWA) [2]	1 ppm
KGVI (OEL STEL)	7.6 mg/m <sup>3</sup>
KGVI (OEL STEL) [ppm]	3 ppm
Remark	Direktiva: 2006/15/EZ. Napomena: Koža (razvrstana kao tvar koja nadražuje kožu (H315))
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)
Denmark - Occupational Exposure Limits	
Local name	2-Aminoethanol (Ethanolamin)
OEL TWA [1]	2.5 mg/m <sup>3</sup>
OEL TWA [2]	1 ppm
Regulatory reference	BEK nr 290 af 13/02/2021
Estonia - Occupational Exposure Limits	
Local name	2-aminoetanool
OEL TWA	2.5 mg/m <sup>3</sup>
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m <sup>3</sup>
OEL STEL [ppm]	3 ppm
Remark	A (Naha kaudu kergesti imenduv aine)
Regulatory reference	Vabariigi Valitsuse 20. m�rtsi 2001. a m��ruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. m�rtsi 2019. a m��ruse nr 84

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>2-aminoethanol (141-43-5)</b>	
<b>Finland - Occupational Exposure Limits</b>	
Local name	2-Aminoetanoli
HTP (OEL TWA) [1]	2.5 mg/m <sup>3</sup>
HTP (OEL TWA) [2]	1 ppm
HTP (OEL STEL)	7.6 mg/m <sup>3</sup>
HTP (OEL STEL) [ppm]	3 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
<b>France - Occupational Exposure Limits</b>	
Local name	Ethanolamine (2-Aminoéthanol)
VME (OEL TWA)	2.5 mg/m <sup>3</sup>
VME (OEL TWA) [ppm]	1 ppm
VLE (OEL Ceiling/STEL)	7.6 mg/m <sup>3</sup>
VLE (OEL Ceiling/STEL) [ppm]	3 ppm
Remark	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	2-Amino-ethanol
AGW (OEL TWA) [1]	0.5 mg/m <sup>3</sup>
AGW (OEL TWA) [2]	0.2 ppm
Peak exposure limitation factor	1(I)
Remark	DFG;EU;Y;Sh;H;11
Regulatory reference	TRGS900
<b>Gibraltar - Occupational Exposure Limits</b>	
Local name	2-Aminoethanol
OEL TWA	2.5 mg/m <sup>3</sup>
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m <sup>3</sup>
OEL STEL [ppm]	3 ppm
Remark	Skin
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)
<b>Greece - Occupational Exposure Limits</b>	
Local name	Αιθανολαμίνη (2-αμινοαιθανόλη)
OEL TWA	2.5 mg/m <sup>3</sup>
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m <sup>3</sup>
OEL STEL [ppm]	3 ppm
Remark	Η ένδειξη «δέρμα» στις οριακές τιμές επαγγελματικής έκθεσης επισημαίνει το ενδεχόμενο σημαντικής διείσδυσης μέσω του δέρματος.
Regulatory reference	Π.Δ. 162/2007 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>2-aminoethanol (141-43-5)</b>	
<b>Hungary - Occupational Exposure Limits</b>	
Local name	2-AMINOETANOL
AK (OEL TWA)	2.5 mg/m <sup>3</sup>
CK (OEL STEL)	7.6 mg/m <sup>3</sup>
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
<b>Italy - Occupational Exposure Limits</b>	
Local name	2-Amminoetano
OEL TWA	2.5 mg/m <sup>3</sup>
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m <sup>3</sup>
OEL STEL [ppm]	3 ppm
Remark	Cute
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
<b>Latvia - Occupational Exposure Limits</b>	
Local name	2-Aminoetanols (monoetanolamīns)
OEL TWA	0.5 mg/m <sup>3</sup>
OEL TWA [ppm]	0.2 ppm
OEL STEL	7.6 mg/m <sup>3</sup>
OEL STEL [ppm]	3 ppm
Remark	Āda
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	2-aminoetanolis (etanolaminas)
IPRV (OEL TWA)	2.5 mg/m <sup>3</sup>
IPRV (OEL TWA) [ppm]	1 ppm
TPRV (OEL STEL)	7.6 mg/m <sup>3</sup>
TPRV (OEL STEL) [ppm]	3 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
<b>Luxembourg - Occupational Exposure Limits</b>	
Local name	2-aminoéthanol
OEL TWA	2.5 mg/m <sup>3</sup>
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m <sup>3</sup>
OEL STEL [ppm]	3 ppm
Remark	Peau
Regulatory reference	Mémorial A N° 684 de 2018 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail
<b>Malta - Occupational Exposure Limits</b>	
Local name	2-Aminoethanol

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>2-aminoethanol (141-43-5)</b>	
OEL TWA	2.5 mg/m <sup>3</sup>
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m <sup>3</sup>
OEL STEL [ppm]	3 ppm
Remark	Skin # Ğilda
Regulatory reference	S.L.424.24 - Chemical Agents at Work Regulations (L.N.57 of 2018)
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	2-Aminoethanol
MAC-TGG (OEL TWA)	2.5 mg/m <sup>3</sup>
MAC-15 (OEL STEL)	7.6 mg/m <sup>3</sup>
Remark	H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Regulatory reference	Arbeidsomstandighedenregeling 2021
<b>Poland - Occupational Exposure Limits</b>	
Local name	2-Aminoetanol
NDS (OEL TWA)	2.5 mg/m <sup>3</sup>
NDSCh (OEL STEL)	7.5 mg/m <sup>3</sup>
Regulatory reference	Dz. U. 2018 poz. 1286
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Etanolamina (2-Aminoetanol)
OEL TWA [ppm]	3 ppm
OEL STEL [ppm]	6 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Romania - Occupational Exposure Limits</b>	
Local name	2-aminoetanol/Etanolamină
OEL TWA	2.5 mg/m <sup>3</sup>
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m <sup>3</sup>
OEL STEL [ppm]	3 ppm
Remark	P - posibilitatea unei penetrări cutanate importante
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
<b>Serbia - Occupational Exposure Limits</b>	
Local name	2-аминоетанол; етаноламин
OEL TWA	3 mg/m <sup>3</sup>
OEL TWA [ppm]	1 ppm
OEL STEL	8 mg/m <sup>3</sup>
OEL STEL [ppm]	3 ppm



# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>2-aminoethanol (141-43-5)</b>	
Remark	EU** – напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2006/15/ЕЗ (друга листа); К – напомена да хемијска материја може штетно деловати на кожу
Regulatory reference	ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама („Службени гласник РС”, бр. 106/09 и 117/17)
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	2-Aminoetanol
NPHV (OEL TWA) [1]	2.5 mg/m <sup>3</sup>
NPHV (OEL TWA) [2]	1 ppm
NPHV (OEL STEL)	7.6 mg/m <sup>3</sup>
NPHV (OEL STEL) [ppm]	3 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	2-aminoetanol (etanolamin)
OEL TWA	2.5 mg/m <sup>3</sup>
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m <sup>3</sup>
OEL STEL [ppm]	3 ppm
Remark	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
<b>Spain - Occupational Exposure Limits</b>	
Local name	2-Aminoetanol (Etanolamina)
VLA-ED (OEL TWA) [1]	2.5 mg/m <sup>3</sup>
VLA-ED (OEL TWA) [2]	1 ppm
VLA-EC (OEL STEL)	7.5 mg/m <sup>3</sup>
VLA-EC (OEL STEL) [ppm]	3 ppm
Remark	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Etanolamin
NGV (OEL TWA)	2.5 mg/m <sup>3</sup>
NGV (OEL TWA) [ppm]	1 ppm
KTV (OEL STEL)	7.5 mg/m <sup>3</sup>
KTV (OEL STEL) [ppm]	3 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	2-Aminoethanol

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>2-aminoethanol (141-43-5)</b>	
WEL TWA [1]	2.5 mg/m <sup>3</sup>
WEL TWA [2]	1 ppm
WEL STEL	7.6 mg/m <sup>3</sup>
WEL STEL [ppm]	3 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>Iceland - Occupational Exposure Limits</b>	
Local name	Etanólámín (2-aminóetanól)
OEL TWA	2.5 mg/m <sup>3</sup>
OEL TWA [ppm]	1 ppm
OEL STEL	7.6 mg/m <sup>3</sup>
OEL STEL [ppm]	3 ppm
Remark	H (efnið getur auðveldlega borist inn í líkamann gegnum húð)
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
<b>Norway - Occupational Exposure Limits</b>	
Local name	2-aminoetanol (Etanolamin)
Greenseverdi (OEL TWA) [1]	2.5 mg/m <sup>3</sup>
Greenseverdi (OEL TWA) [2]	1 ppm
Regulatory reference	FOR-2020-04-06-695
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	2-Aminoéthanol / 2-Aminoethanol [Ethanolamin]
MAK (OEL TWA) [1]	5 mg/m <sup>3</sup>
MAK (OEL TWA) [2]	2 ppm
KZGW (OEL STEL)	10 mg/m <sup>3</sup>
KZGW (OEL STEL) [ppm]	4 ppm
Critical toxicity	Peau, Fatigue, Yeux / Haut, Fatigue, Auge
Notation	S / S
Remark	NIOSH
Regulatory reference	www.suva.ch, 01.01.2021

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

**Personal protective equipment symbol(s):**



##### 8.2.2.1. Eye and face protection

**Eye protection:**

Safety glasses

##### 8.2.2.2. Skin protection

**Skin and body protection:**

Wear suitable protective clothing

**Hand protection:**

Protective gloves

##### 8.2.2.3. Respiratory protection

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Explosive limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

metals.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Black Diamond Disolvo Rust 7	
ATE CLP (oral)	1860.119 mg/kg bodyweight
Benzoic acid (65-85-0)	
LD50 oral	2250 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1875 - 2700
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit
LC50 Inhalation - Rat	> 12.2 mg/l air Animal: rat
ETIDRONIC ACID (2809-21-4)	
LD50 oral rat	3130 mg/kg bodyweight Animal: rat, 95% CL: 2660 - 3665
LD50 dermal rabbit	> 10000 mg/kg bodyweight Animal: rabbit
tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate (51981-21-6)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:JMAFF Guidelines (2000)
LC50 Inhalation - Rat	> 4.2 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>Sodium capryliminodipropionate (94441-92-6)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:Japanese Ministry of Agriculture, Forestry and Fisheries (JMAFF), 12 Nohsan, Notification No 8147, April 2011; including the most recent partial revisions.

Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.

<b>Benzoic acid (65-85-0)</b>	
LOAEL (dermal, rat/rabbit, 90 days)	> Animal: rabbit, Guideline: EPA OPP 82-2 (Repeated Dose Dermal Toxicity -21/28 Days)
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	≤ 0.025 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

<b>2-aminoethanol (141-43-5)</b>	
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: other:OECD Guideline 416 (Two-generation reproduction toxicity study)

<b>tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate (51981-21-6)</b>	
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents), Guideline: other:Japanese MHLW (1121002), METI (2), ME (031121002)

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.
Not rapidly degradable	

<b>Benzoic acid (65-85-0)</b>	
LC50 - Fish [1]	47.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Fish [2]	44.6 mg/l Test organisms (species): Lepomis macrochirus
EC50 72h - Algae [1]	> 33.1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥ 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>Benzoic acid (65-85-0)</b>	
NOEC chronic fish	> 120 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'
<b>2-aminoethanol (141-43-5)</b>	
LC50 - Fish [1]	349 mg/l Test organisms (species): Cyprinus carpio
EC50 - Crustacea [1]	65 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	2.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	2.1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	0.85 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	1.24 mg/l Test organisms (species): Oryzias latipes Duration: '41 d'
<b>ETIDRONIC ACID (2809-21-4)</b>	
LC50 - Fish [1]	195 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	527 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	7.23 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [2]	3 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	6.75 mg/l Test organisms (species): Daphnia magna Duration: '28 d'
<b>tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate (51981-21-6)</b>	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
LOEC (chronic)	> 265.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≥ 265.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>Sodium capryliminodipropionate (94441-92-6)</b>	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Fish [2]	> 233 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 400 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	> 1000 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	≥ 62.5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available






## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN 1760	UN 1760	UN 1760	UN 1760	UN 1760
<b>14.2. UN proper shipping name</b>				
CORROSIVE LIQUID, N.O.S. (2-aminoethanol ; Benzoic acid)	CORROSIVE LIQUID, N.O.S. (2-aminoethanol ; Benzoic acid)	Corrosive liquid, n.o.s. (2-aminoethanol ; Benzoic acid)	CORROSIVE LIQUID, N.O.S. (2-aminoethanol ; Benzoic acid)	CORROSIVE LIQUID, N.O.S. (2-aminoethanol ; Benzoic acid)
<b>Transport document description</b>				
UN 1760 CORROSIVE LIQUID, N.O.S. (2-aminoethanol ; Benzoic acid), 8, II, (E)	UN 1760 CORROSIVE LIQUID, N.O.S. (2-aminoethanol ; Benzoic acid), 8, II	UN 1760 Corrosive liquid, n.o.s. (2-aminoethanol ; Benzoic acid), 8, II	UN 1760 CORROSIVE LIQUID, N.O.S. (2-aminoethanol ; Benzoic acid), 8, II	UN 1760 CORROSIVE LIQUID, N.O.S. (2-aminoethanol ; Benzoic acid), 8, II
<b>14.3. Transport hazard class(es)</b>				
8	8	8	8	8
				
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : C9  
Special provisions (ADR) : 274  
Limited quantities (ADR) : 1I  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P001, IBC02  
Mixed packing provisions (ADR) : MP15  
Portable tank and bulk container instructions (ADR) : T11

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Portable tank and bulk container special provisions (ADR) : TP2, TP27

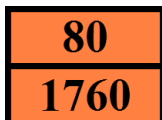
Tank code (ADR) : L4BN

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Hazard identification number (Kemler No.) : 80

Orange plates :



Tunnel restriction code (ADR) : E

EAC code : 2X

APP code : B

### Transport by sea

Special provisions (IMDG) : 274

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T11

Tank special provisions (IMDG) : TP2, TP27

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-B

Stowage category (IMDG) : B

Stowage and handling (IMDG) : SW2

Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

### Air transport

PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y840

PCA limited quantity max net quantity (IATA) : 0.5L

PCA packing instructions (IATA) : 851

PCA max net quantity (IATA) : 1L

CAO packing instructions (IATA) : 855

CAO max net quantity (IATA) : 30L

Special provisions (IATA) : A3, A803

ERG code (IATA) : 8L

### Inland waterway transport

Classification code (ADN) : C9

Special provisions (ADN) : 274

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E2

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : C9

Special provisions (RID) : 274

Limited quantities (RID) : 1L

Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02

Mixed packing provisions (RID) : MP15

Portable tank and bulk container instructions (RID) : T11

Portable tank and bulk container special provisions (RID) : TP2, TP27

Tank codes for RID tanks (RID) : L4BN

Transport category (RID) : 2

Colis express (express parcels) (RID) : CE6

Hazard identification number (RID) : 80



# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

#### 15.1.2. National regulations

France	
Occupational diseases	
Code	Description
RG 49	Skin disorders caused by aliphatic, alicyclic amines or ethanolamines
RG 49 BIS	Respiratory disorders caused by aliphatic amines, ethanolamines or isophoronediamine

#### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

List of sensitizing substances (TRGS 907) : Contains sensitizing substances according TRGS 907

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : Sodium capryliminodipropionate is listed

SZW-lijst van mutagene stoffen : Sodium capryliminodipropionate is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

#### Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

#### Switzerland

Storage class (LK) : LK 6.1 - Toxic materials

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
-----	---

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Abbreviations and acronyms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4

# Black Diamond Disolvo Rust 7

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full text of H- and EUH-statements:	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

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.