

according to Regulation (EC) No 1907/2006

Revision date: 10.05.2019

Zubora TDG

Article No.: 32140

Page 1 of 9

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

1.1. Product identifier

32140 Zubora TDG

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

Use of the substance/mixture Water-soluble cooling lubricant

1.3. Details of the supplier of the safety data sheet

Company name:	Zeller+Gmelin GmbH & Co. KG	
Street:	Schlossstr. 20	
Place:	D-73054 Eislingen	
Telephone:	+49 (0) 7161 / 802-0	Telefax: +49 (0) 7161 / 802-290
e-mail:	info@zeller-gmelin.de	
Contact person:	Uwe Allmendinger	Telephone: +49 (0) 7161 / 802-297
e-mail:	produktsicherheit@zeller-gmelin.de	
Internet:	www.zeller-gmelin.de	
Responsible Department:	Produktsicherheit / Product Safety	
1.4. Emergency telephone	Germany: +49 (0) 7161 / 802-400	
number:	•	45 4647 or 111 In Scotland: NHS 24 - 08454
	24 24 24 In Republic of Ireland: 01 809	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories: Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1 Hazard Statements: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

1,2-benzisothiazol-3(2H)-one

Signal word:

Pictograms:



Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Precautionary statements

bouutionaly otatomon	
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

according to Regulation (EC) No 1907/2006

Revision date:	Zubora TDG	
10.05.2019	Article No.: 32140	Page 2 of 9

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Results of PBT and vPvB assessment: not applicable.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Water-soluble cooling lubricant

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
	ionic mixture of carboxyl	c acids and alkanolamines		25 - <= 100 %
	Skin Irrit. 2, Eye Irrit. 2; H	1315 H319		
10043-35-3	boric acid			1 - < 2.5 %
	233-139-2	005-007-00-2	01-2119486683-25	
	Repr. 1B; H360FD			
2634-33-5	1,2-benzisothiazol-3(2H)-one			0.1 - < 0.3 %
	220-120-9	613-088-00-6		
	Acute Tox. 4, Skin Irrit. 2 H400			
55406-53-6	3-iodo-2-propynyl butylca	arbamate		< 0.1 %
	259-627-5	616-212-00-7		
	Acute Tox. 3, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, STOT RE 1, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1; H331 H302 H318 H317 H372 H400 H410			
31075-24-8	1,2-ethanediamine, N1,N1,N2,N2-tetramethyl-, polymer with 1,1'-oxybis[2-chloroethane]			< 0.1 %
	608-578-1			
	Acute Tox. 4, Acute Tox. H302 H319 H400 H410	4, Eye Irrit. 2, Aquatic Acute 1 (M-F	actor = 10), Aquatic Chronic 1; H332	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Remove contaminated, saturated clothing immediately.

After inhalation

Remove casualty to fresh air and keep warm and at rest.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Let water be drunken in little sips (dilution effect). Call a physician immediately. Do NOT induce vomiting.

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

When in doubt or if symptoms are observed, get medical advice.

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

according to Regulation (EC) No 1907/2006

Zubora TDG

Revision date: 10.05.2019

Article No.: 32140

Page 3 of 9

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO2).

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products: Carbon monoxide Carbon dioxide (CO2). Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Do not allow to enter into soil/subsoil.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Clean contaminated articles and floor according to the environmental legislation.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Do not eat, drink or smoke when using this product. Provide fresh air. Handle and open container with care. Conditions to avoid: generation/formation of aerosols.

Advice on protection against fire and explosion

No special measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Protect against: Frost. Keep away from heat. Protect against direct sunlight. Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

according to Regulation (EC) No 1907/2006

Revision date:	Zubora TDG	
10.05.2019	Article No.: 32140	Page 4 of 9

DNEL/DMEL values

CAS No	Substance			
DNEL type Exposure route Effect Value				Value
10043-35-3	boric acid			
Worker DNEL, long-term inhalation systemic 8,3 mg/m ³				8,3 mg/m³
Consumer DNEL, long-term inhalation systemic 4,15 mg/m ³				4,15 mg/m³
Worker DNEL, long-term		dermal	systemic	392 mg/kg bw/day
Consumer DN	IEL, acute	oral	systemic	0,98 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	0,98 mg/kg bw/day
Consumer DN	IEL, long-term	dermal	systemic	196 mg/kg bw/day

PNEC values

CAS No	Substance		
Environmental	Environmental compartment Value		
10043-35-3 boric acid			
Freshwater	Freshwater 1,35 mg/l		
Marine water 1,35 mg/l			
Soil 5,4 mg/kg			
Micro-organisms in sewage treatment plants (STP) 1,75 mg/l			
Freshwater sediment 1,8 mg/kg		1,8 mg/kg	
Marine sediment 1,8 mg/kg			

8.2. Exposure controls

Appropriate engineering controls

See chapter 7. No additional measures necessary.

Protective and hygiene measures

When using do not eat, drink, smoke, sniff.

Eye/face protection

Eye glasses with side protection.

Hand protection

Wear suitable gloves. Recommended glove articles: EN ISO 374. Suitable material: NBR (Nitrile rubber). Breakthrough time (maximum wearing time): > 480 min (Thickness of the glove material: 0.4 mm). Breakthrough times and swelling properties of the material must be taken into consideration. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Skin protection

Protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. When splashes or fine mist form, a permitted breathing apparatus suitable for these purposes must be used. Suitable respiratory protection apparatus: Filtering Half-face mask (DIN EN 149), e.g. FFA P / FFP3.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	yellow
Odour:	characteristic

according to Regulation (EC) No 1907/2006

Revision date:	Zubora TDG		
10.05.2019	Article No.: 32140		Page 5 of 9
		Test method	
pH-Value (at 20 °C):	9,3	DIN 51369 (30 g/L)	
Changes in the physical state			
Melting point:	not determined		
Initial boiling point and boiling range:	not determined		
Pour point:	not determined		
Flash point:	not applicable		
Lower explosion limits:	not applicable		
Upper explosion limits:	not applicable		
Ignition temperature:	not determined		
Decomposition temperature:	No information available.		
Vapour pressure:	not determined		
Density (at 15 °C):	1,09 g/cm³	DIN EN ISO 12185	
Water solubility:	very soluble		
Partition coefficient:	not determined		
Viscosity / dynamic:	not determined		
Viscosity / kinematic: (at 20 °C)	12 mm²/s		
Flow time:	not determined		
Vapour density:	not determined		
Evaporation rate:	not determined		
9.2. Other information			
No information available.			

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

according to Regulation (EC) No 1907/2006

Revision date)
10 05 2019	

Zubora TDG

Article No.: 32140

Page 6 of 9

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one					
	oral	LD50 mg/kg	597	Rat		
	dermal	LD50 mg/kg	> 2000	Rat		
55406-53-6						
	oral	LD50 mg/kg	>300-500	Rat		
	dermal	LD50 mg/kg	>5000	Rat		
	inhalation vapour	ATE	3 mg/l			
	inhalation (4 h) aerosol	LC50	0,67 mg/l			
31075-24-8	1,2-ethanediamine, N1,N1,N2,N2-tetramethyl-, polymer with 1,1'-oxybis[2-chloroethane]					
	oral	LD50 mg/kg	1951	Rat		
	inhalation vapour	ATE	11 mg/l			
	inhalation aerosol	ATE	1,5 mg/l			

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (1,2-benzisothiazol-3(2H)-one; 3-iodo-2-propynyl butylcarbamate)

Carcinogenic/mutagenic/toxic effects for reproduction

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

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.

Practical experience

Other observations

Keeping to the general worker's protection rules and the industrial hygienics, there is no risk in handling this product through the personnel.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

according to Regulation (EC) No 1907/2006

Revision	date
10.05.20	19

Zubora TDG

Article No.: 32140

Page 7 of 9

CAS No	No Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-	1,2-benzisothiazol-3(2H)-one					
	Acute fish toxicity	LC50 mg/l	0,74	96 h			
	Acute crustacea toxicity	EC50 mg/l	2,44	48 h	Daphnia magna (Big water flea)		
55406-53-6	3-iodo-2-propynyl butylca	rbamate					
	Acute fish toxicity	LC50 mg/l	0,067	96 h	Oncorhynchus mykiss (Rainbow trout)	OECD 203	
	Acute algae toxicity	ErC50 mg/l	0,022	72 h	Scenedesmus subspicatus	OECD 201	
	Acute crustacea toxicity	EC50 mg/l	0,16	48 h	Daphnia magna (Big water flea)	OECD 202	
	Fish toxicity	NOEC mg/l	0,0084	35 d			
	Algea toxicity	NOEC mg/l	0,0046	72 d			
	Crustacea toxicity	NOEC mg/l	0,05	21 d			
31075-24-8	-8 1,2-ethanediamine, N1,N1,N2,N2-tetramethyl-, polymer with 1,1'-oxybis[2-chloroethane]						
	Acute fish toxicity	LC50 mg/l	0,047	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute crustacea toxicity	EC50 mg/l	0,37	48 h	Daphnia magna (Big water flea)		

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	
10043-35-3	boric acid	-1,09
2634-33-5	1,2-benzisothiazol-3(2H)-one	
55406-53-6	3-iodo-2-propynyl butylcarbamate	2,88

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

Disposal recommendations

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

List of Wastes Code - residues/unused products

120109 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; machining emulsions and solutions free of halogens; hazardous waste



according to Regulation (EC) No 1907/2006

Revision date: Zubora TDG			
10.05.2019	Article No.: 32140	Page 8 of	
Contaminated packaging Non-contaminated packages may be re disposal.	ecycled. Consult the appropriate local waste disposal expert about waste		
SECTION 14: Transport information			
Land transport (ADR/RID)			
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.		
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.		
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.		
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.		
Marine transport (IMDG)			
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.		
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.		
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.		
<u>14.4. Packing group:</u> Marine pollutant:	No dangerous good in sense of this transport regulation. NO		
Air transport (ICAO-TI/IATA-DGR)			
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.		
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.		
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.		
14.4. Packing group:	No dangerous good in sense of this transport regulation.		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	no		
14.6. Special precautions for user No data available			
14.7. Transport in bulk according to Annex I No data available	l of Marpol and the IBC Code		
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture		
EU regulatory information			
Authorisations (REACH, annex XIV): Substances of very high concern, SVH boric acid	C (REACH, article 59):		
Restrictions on use (REACH, annex XVII): Entry 30: boric acid			
2010/75/EU (VOC): Information according to 2012/18/EU (SEVESO III):	0 % Not subject to 2012/18/EU (SEVESO III)		
National regulatory information			
Water contaminating class (D):	2 - clearly water contaminating		
15.2. Chemical safety assessment			
Chemical safety assessments for subst	tances in this mixture were not carried out.		

Changes

according to Regulation (EC) No 1907/2006

Revision date:	Zubora TDG	
10.05.2019	Article No.: 32140	Page 9 of 9
This data sheet contai	ins changes from the previous version in section(s): 3.	

Abbreviations and acronyms

ADR: Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations concerning the International Carriage of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association ICAO: International Civil Aviation Organization CAS: Chemical Abstracts Service (a division of the American Chemical Society) DNEL/DMEL: Derived No-Effect Level / Derived Minimal Effect Level PNEC: Predicted No Effect Concentration WEL (UK): Workplace Exposure Limits TWA (EC): Time-Weighted Average STEL (EC): Short Term Exposure Limit ATE: Acute Toxicity Estimate LD50: Lethal Dose, 50% (median lethal dose) LC50: Lethal Concentration, 50% (median lethal concentration) EC50: half maximal Effective Concentration ErC50: EC50 in terms of reduction of growth rate AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method

Relevant H and EUH statements (number and full text)

/C	elevant it and Lott statements (number and fun text)				
	H302	Harmful if swallowed.			
	H315	Causes skin irritation.			
	H317	May cause an allergic skin reaction.			
	H318	Causes serious eye damage.			
	H319	Causes serious eye irritation.			
	H331	Toxic if inhaled.			
	H332	Harmful if inhaled.			
	H360FD	May damage fertility. May damage the unborn child.			
	H372	Causes damage to organs through prolonged or repeated exposure.			
	H400	Very toxic to aquatic life.			
	H410	Very toxic to aquatic life with long lasting effects.			

Further Information

Safety Data Sheet according to COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)