



SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture DURA-BRIGHT® WHEEL WASH
Registration number -
Synonyms GAXDBWW1, GAXDBWW5, GAXDBWW25
Issue date 18-July-2020
Version number 01

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

Identified uses Wheel cleaner.

Sector of use:
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites.
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen).

Uses advised against All not mentioned uses.
SU21 Consumer uses: Private households / general public / consumers.

1.3. Details of the supplier of the safety data sheet

Company name Howmet-Köfém Kft.
Address 1-15 Verseci út
8000 Székesfehérvár
Hungary
Telephone +36 22 531 200
1.4. Emergency telephone number 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Hazard summary Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None.
Signal word None.
Hazard statements The mixture does not meet the criteria for classification.

Precautionary statements

Prevention Observe good industrial hygiene practices.
Response Wash hands after handling.
Storage Store away from incompatible materials.
Disposal Dispose of waste and residues in accordance with local authority requirements.

Supplemental label information EUH210 - Safety data sheet available on request.

2.3. Other hazards This mixture does not contain substances that are assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
2-Butoxyethanol	3 - 5	111-76-2 203-905-0	01-2119475108-36-0000	603-014-00-0	#
Classification:	Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Acute Tox. 4;H332				

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

Composition comments

This product does not contain any SVHC substances.

Regulation (EC) No 648/2004 on detergents / Labelling for contents:
non-ionic surfactants, anionic surfactants, phosphates, cationic surfactants,
2,6-Dimethyl-7-octen-2-ol, Terpeneol, Octanal < 5%

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Additional components are not hazardous or are below required disclosure limits.

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

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

Direct contact with eyes may cause temporary irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards

No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed. Carbon oxides Nitrogen Oxides (NO_x).

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away.

For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

Wheel cleaner.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	STEL	246 mg/m ³
		50 ppm
	TWA	123 mg/m ³
		25 ppm

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	STEL	246 mg/m ³
		50 ppm
	TWA	98 mg/m ³
		20 ppm

Biological limit values

UK. EH40 Biological Monitoring Guidance Values (BMGVs)

Components	Value	Determinant	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	240 mmol/mol	Butoxyacetic acid	Creatinine in urine	*

* - For sampling details, please see the source document.

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General Population

Components	Value	Assessment factor	Notes
2-Butoxyethanol (CAS 111-76-2)			
Long-term, Systemic, Dermal	75 mg/kg bw/day	2	Repeated dose toxicity
Long-term, Systemic, Inhalation	59 mg/m ³		Repeated dose toxicity
Long-term, Systemic, Oral	6.3 mg/kg bw/day	10.8	Repeated dose toxicity
Short-term, Local, Inhalation	147 mg/m ³		respiratory tract irritation
Short-term, Systemic, Dermal	89 mg/kg bw/day	15	Acute toxicity
Short-term, Systemic, Inhalation	426 mg/m ³	15	Acute toxicity
Short-term, Systemic, Oral	26.7 mg/kg bw/day	15	Acute toxicity

Workers

Components	Value	Assessment factor	Notes
2-Butoxyethanol (CAS 111-76-2)			
Long-term, Systemic, Dermal	125 mg/kg bw/day	1.2	Repeated dose toxicity

Long-term, Systemic, Inhalation	98 mg/m ³		Repeated dose toxicity
Short-term, Local, Inhalation	246 mg/m ³		respiratory tract irritation
Short-term, Systemic, Inhalation	1091 mg/m ³	9	Acute toxicity

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
2-Butoxyethanol (CAS 111-76-2)			
Freshwater	8.8 mg/l	10	
Marine water	0.88 mg/l	100	
Secondary poisoning	0.02 g/kg	90	Oral
Sediment (freshwater)	34.6 mg/kg		
Soil	2.33 mg/kg		
STP	463 mg/l	1	

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection

If contact is likely, safety glasses with side shields are recommended. Eye protection should meet standard EN 166.

Skin protection

- Hand protection

Gloves are recommended for prolonged use. Wear suitable gloves tested to EN374. Nitrile rubber. Natural Rubber. Suitable gloves can be recommended by the glove supplier.

- Other

Wear appropriate chemical resistant clothing.

Respiratory protection

No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls

Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid.

Form Liquid.

Colour Light red.

Odour Characteristic.

Odour threshold 0.5 - 10 mg/m³ (Li t . RIVM 711701048/2007 App. 2) (2-Butoxyethanol)

pH 4.4

Melting point/freezing point Not available.

Initial boiling point and boiling range > 100 °C (> 212 °F)

Flash point Not applicable.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not applicable.

Flammability limit - upper (%) Not applicable.

Vapour pressure 80 Pa (2-Butoxyethanol) (20 °C (68 °F))

Vapour density Not available.

Relative density Not available.

Solubility(ies)	
Solubility (water)	Easily soluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	10 s (DIN 53211/4) (20 °C (68 °F))
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2. Other information

Density	1.00 g/cm ³ (20 °C (68 °F))
VOC	4 %

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	May be corrosive to metals.
10.4. Conditions to avoid	Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents. Copper. Brass. Cast iron. PVA.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

Health effects associated with compounds formed during processing

No new/additional compounds are expected to be formed during processing.

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Ingestion	May cause discomfort if swallowed.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	Prolonged skin contact may cause temporary irritation.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

Eye contact

2-Butoxyethanol	100 mg/day Result: Positive Species: Rabbit Organ: Eye Test Duration: 24 Hours Severity: Moderate
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Symptoms Direct contact with eyes may cause temporary irritation.

11.1. Information on toxicological effects

Acute toxicity

Product	Species	Test Results
DURA-BRIGHT ® WHEEL WASH		
Acute		
Dermal		
ATEmix		22000 mg/kg
Inhalation		
<i>Vapour</i>		
ATEmix		220 mg/l
Oral		
ATEmix		10000 mg/kg

Components	Species	Test Results
2-Butoxyethanol (CAS 111-76-2)		
Acute		
Dermal		
LD50	Rabbit	400 mg/kg
	Rat	2270 mg/kg, 4 Hours
Inhalation		
LC50	Mouse	700 ppm, 7 Hours
	Rat	2 - 20 mg/l, 4 Hours
		450 ppm, 4 Hours
Oral		
LD50	Mouse	1.2 g/kg
	Rat	6600 mg/kg
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.	
Eye contact		
2-Butoxyethanol		100 mg/day Result: Positive Species: Rabbit Organ: Eye Test Duration: 24 Hours Severity: Moderate
Respiratory sensitisation	Based on available data, the classification criteria are not met.	
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.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
2-Butoxyethanol (CAS 111-76-2)	3 Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity	Based on available data, the classification criteria are not met.	
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.	
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.	
Aspiration hazard	Based on available data, the classification criteria are not met.	
Mixture versus substance information	No information available.	
Other information	Not known.	

SECTION 12: Ecological information

12.1. Toxicity Based on available data, the classification criteria are not met for hazardous to the aquatic environment.

Components	Species	Test Results
2-Butoxyethanol (CAS 111-76-2)		
Aquatic		
Crustacea	EC50	Daphnia magna 1000 mg/l, 48 hours
Fish	LC50	Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours Marine water
12.2. Persistence and degradability	No data is available on the degradability of this product.	
12.3. Bioaccumulative potential	Not available.	
Partition coefficient n-octanol/water (log Kow)		
2-Butoxyethanol		0.83
Bioconcentration factor (BCF)	Not available.	
12.4. Mobility in soil	This product is water soluble and may disperse in soil.	
12.5. Results of PBT and vPvB assessment	This mixture does not contain substances that are assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.	

12.6. Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA Code:

Not regulated as dangerous goods.

IMDG Code

Not regulated as dangerous goods.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations	Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.
SECTION 16: Other information	
List of abbreviations	<p>ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.</p> <p>EC50: Effective Concentration 50%.</p> <p>IATA: International Air Transport Association.</p> <p>IMDG Code: International Maritime Dangerous Goods Code.</p> <p>LC50: Lethal Concentration 50%.</p> <p>LD50: Lethal Dose 50%.</p> <p>PBT: Persistent, bioaccumulative, toxic.</p> <p>STEL: Short-Term Exposure Limit.</p> <p>TWA: Time Weighted Average Value.</p> <p>vPvB: very Persistent, very Bioaccumulative.</p>
References	<p>ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices</p> <p>EPA: AQUIRE database</p> <p>HSDB® - Hazardous Substances Data Bank</p> <p>IARC Monographs. Overall Evaluation of Carcinogenicity</p> <p>National Toxicology Program (NTP) Report on Carcinogens</p> <p>NLM: Hazardous Substances Data Base</p>
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any H-statements not written out in full under Sections 2 to 15	<p>H302 Harmful if swallowed.</p> <p>H312 Harmful in contact with skin.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p>
Revision information	<p>Product and Company Identification: Synonyms</p> <p>Composition / Information on Ingredients: Ingredients</p> <p>Physical & Chemical Properties: Multiple Properties</p> <p>Transport Information: Material Transportation Information</p> <p>GHS: Classification</p>
Training information	Follow training instructions when handling this material.
Disclaimer	Howmet-Köfém Kft. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.