



Article number 1-01294+1-01293

MULTIPLEX Modellsport GmbH & Co. KG

75015 Bretten-Gölshausen/Deutschland

Date printed 27.06.2019, Revision 05.12.2017

Version 02. Supersedes version: 01

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

Zacki Greentec

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

Adhesive

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet
Company

MULTIPLEX Modellsport GmbH & Co. KG
Westliche Gewerbestr. 1
75015 Bretten-Gölshausen/Deutschland
Phone 07252 / 580930
Fax
Homepage
E-mail

Address enquiries to
Technical information
Safety Data Sheet

info@chemiebuero.de

1.4 Emergency telephone number
Advisory body

+49 (0)551-19240

Company

GIZ-NORD

SECTION 2: Hazards identification
2.1 Classification of the substance or mixture

No classification.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms

none

Signal word

none

Hazard statements

none

Precautionary statements

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Special labelling

EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

2.3 Other hazards
Human health dangers

People who are allergic to cyanoacrylates should avoid the use of the product.

Other hazards

Further hazards were not determined with the current level of knowledge.



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SECTION 3: Composition / Information on ingredients**Product-type:**

The product is a mixture.

Range [%]	Substance
> 80 - < 100	2-methoxyethyl 2-cyanoacrylate CAS: 27816-23-5, EINECS/ELINCS: 248-670-5
0 - 10	Dimethyl siloxane, reaction product with silica CAS: 67762-90-7
0 - 10	Acrylpolymer
0,01 - < 0,1	1,4-Dihydroxybenzene CAS: 123-31-9, EINECS/ELINCS: 204-617-8, EU-INDEX: 604-005-00-4 GHS/CLP: Acute Tox. 4: H302 - Carc. 2: H351 - Eye Dam. 1: H318 - Skin Sens. 1: H317 - Muta. 2: H341 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M = 10

Comment on component parts

No dangerous components.

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Take off contaminated clothing and wash before reuse.

InhalationEnsure supply of fresh air.
In the event of symptoms seek medical treatment.**Skin contact**Do not pull solidified product from skin forcibly.
When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.**Eye contact**Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Do not open bonded eyelids forcibly and without any special care.
Shield unaffected eye.**Ingestion**Keep airways free.
Do not induce vomiting.
Get medical advice.**4.2 Most important symptoms and effects, both acute and delayed**

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Foam, dry powder, water spray jet, carbon dioxide.

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixtureCarbon monoxide (CO), irritant gases/vapours.
Nitrogen oxides (NOx).**5.3 Advice for firefighters**Use self-contained breathing apparatus.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.



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

Ensure adequate ventilation.
 Use personal protective equipment.
 High risk of slipping due to leakage/spillage of product.
 Keep away from all sources of ignition.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Allow to solidify.
 Take up mechanically.
 Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

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

Use only in well-ventilated areas.
 Keep away from all sources of ignition.
 Do not eat, drink or smoke when using this product.
 Wash hands before breaks and after work.
 Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
 Keep away from water.
 Recommended storage temperature: 2-8 °C.
 Keep container tightly closed.
 Protect from atmospheric moisture and water.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection**8.1 Control parameters**

Ingredients with occupational
 exposure limits to be monitored (GB)

Substance
1,4-Dihydroxybenzene
CAS: 123-31-9, EINECS/ELINCS: 204-617-8, EU-INDEX: 604-005-00-4
Long-term exposure: 0,5 mg/m ³
2-methoxyethyl 2-cyanoacrylate
CAS: 27816-23-5, EINECS/ELINCS: 248-670-5
Short-term exposure (15-minute): 0,3 ppm, 1,5 mg/m ³



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8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Pay attention to dust limit value (ACGHI-2011: 10 mg/m ³ particle inhalable; 3 mg/m ³ particle respirable).
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: ≥ 0,4 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3).
Skin protection	Light protective clothing.
Other	Avoid contact with eyes and skin. Do not inhale gases/vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form	liquid
Color	colourless
Odor	odourless
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	74 - 76
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	1,06 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	No information available.
Viscosity	See product information
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

No information available.



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SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents.

Reactions with water.

Risk of polymerisation.

10.4 Conditions to avoid

Strong heating.

Water

Polymerizes slowly on exposure to water (moisture).

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No hazardous decomposition products known.



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SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.:
dermal, Based on the available information, the classification criteria are not fulfilled.:
oral, Based on the available information, the classification criteria are not fulfilled.:
Substance
2-methoxyethyl 2-cyanoacrylate, CAS: 27816-23-5
LD50, dermal, Rabbit: > 2000 mg/kg.
LD50, oral, Rat: > 5000 mg/kg.
Dimethyl siloxane, reaction product with silica, CAS: 67762-90-7
LD50, dermal, Rat: > 2000 mg/kg bw.
LD50, oral, Rat: > 5000 mg/kg bw.
LC0, inhalative, Rat: 0,139 mg/l/4h.
1,4-Dihydroxybenzene, CAS: 123-31-9
LD50, oral, Rat: 367 mg/kg bw (OECD 401).
LOAEL, oral, Rat: < 500 mg/kg bw/14d.

Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled.
Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled.
Respiratory or skin sensitisation	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

SECTION 12: Ecological information**12.1 Toxicity**

Product
Based on the available information, the classification criteria are not fulfilled.:
Substance
Dimethyl siloxane, reaction product with silica, CAS: 67762-90-7
LC50, (96h), Brachidanio rerio: > 10000 mg/l.
EC50, (24h), Daphnia magna: > 1000 mg/l.
1,4-Dihydroxybenzene, CAS: 123-31-9
LC50, (96h), Oncorhynchus mykiss: 0,638 mg/l (OECD 203).
EC50, (72h), Scenedesmus subspicatus: 0,335 mg/l (OECD 201).
EC50, (48h), Daphnia magna: 0,134 mg/l (OECD 202).
NOEC, (21d), Daphnia magna: 0,0057 mg/l (OECD 211).



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12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Ecological data of complete product are not available.
Do not allow product to reach the drainage.
The product is insoluble in water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the authorities if necessary.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 080499

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Contaminated packing should be disposed of as product waste.

Waste no. (recommended) 150102
150101
150104

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable



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14.2 UN proper shipping name

Transport by land according to ADR/RID	NO DANGEROUS GOODS
Inland navigation (ADN)	NO DANGEROUS GOODS
Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.4 Packing group

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID	no
Inland navigation (ADN)	no
Marine transport in accordance with IMDG	no
Air transport in accordance with IATA	no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable



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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS	1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	no
- VOC (2010/75/CE)	not applicable

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**16.1 Hazard statements (SECTION 03)**

H410 Very toxic to aquatic life with long lasting effects.
 H400 Very toxic to aquatic life.
 H341 Suspected of causing genetic defects.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H351 Suspected of causing cancer.
 H302 Harmful if swallowed.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative



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16.3 Other information

Customs Tariff not determined

Classification procedure

Modified position

SECTION 3 been added: 1,4-Dihydroxybenzene

SECTION 8 been added: Pay attention to dust limit value (ACGHI-2011: 10 mg/m³ particle inhalable; 3 mg/m³ particle respirable).

SECTION 15 been added: 1 (self-classification)

SECTION 15 deleted: not hazardous for water, acc. AwSV of 18.04.2017

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