

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier:

K2 RADIATOR STOP LEAK

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

Radiator sealant for consumer, professional use.

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

Information about the distributor:

AUTODOC SE

Josef-Orlopp-Str. 55, 10365 Berlin

Germany

Tel: +49 30 2202 6998

Information about the manufacturer:

Melle Sp. z o. o.

Stary Staw 9

63-400 OSTRÓW WLKP

Poland

Tel.: +48 62 737 88 46

E-mail: zakupy@inter-global.com.pl

1.3.1. Responsible person:

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E-mail:

info1@autodoc.de

1.4. Emergency telephone number:

United Kingdom: National Poisons Information Service (NPIS)

NHS 111 (England), NHS 24 (Scotland) or NHS Direct (Wales) – dial 111

In Northern Ireland contact your local GP

Healthcare Professionals: UK NPIS 0344 892 0111

Belgium:

Belgian Poison Control Center

Tel: 070 245 245 (free of charge)

8002 5500, from the Grand Duchy of Luxembourg

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 (CLP):

Not considered as hazardous mixture.

Hazard statements: No hazard statements.

2.2. Label elements:

Hazard statements: No hazard statements.

Precautionary statements:

P102 – Keep out of reach of children.

EUH 208 – Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

2.3. Other hazards:

The product has no other known specific hazards for human or environment.
Results of PBT and vPvB assessment: Not applicable.
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances:

Not applicable.

3.2. Mixtures:

Hazardous ingredients:

Description	CAS number	EC number / ECHA list number	REACH registration number	Conc. (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)		
					Pictogram, signal word code(s)	Hazard class and category code(s)	Hazard statement code(s)
Ethanediol* Index number: 603-027-00-1	107-21-1	203-473-3	01- 2119456816-28	<10	GHS07 GHS08 Warning	Acute Tox. 4 STOT RE 2	H302 H373
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) Index number: 613-167-00-5	55965-84-9	-	-	<0.0015	GHS06 GHS05 GHS09 Danger	Acute Tox. 2 Acute Tox. 2 Acute Tox. 3 Skin Corr. 1C Eye Dam. 1 Skin Sens. 1A Aquatic Acute 1 M=100 Aquatic Chronic 1 M=100	H330 H310 H301 H314 H318 H317 H400 H410 EUH071

*: Substance having occupational exposure limit value.

Specific concentration limits:

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (CAS: 55965-84-9):

Skin Corr. 1C; H314: $C \geq 0,6 \%$

Skin Irrit. 2; H315: $0,06 \% \leq C < 0,6 \%$

Eye Dam. 1; H318: $C \geq 0,6 \%$

Eye Irrit. 2; H319: $0,06 \% \leq C < 0,6 \%$

Skin Sens. 1A; H317: $C \geq 0,0015 \%$

For the full text of hazard statements, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

General information: Remove victim to fresh air. No special measures needed.

The protection of first-aiders: Self-protection.

INGESTION:

Measures:

- In case of persistent symptoms, seek medical advice.

INHALATION:

Measures:

- Take the victim into fresh air.
- In case of complaints, obtain medical attention.

SKIN CONTACT:

Measures:

- Usually, the product is not irritant to the skin.

EYE CONTACT:

Measures:

- In case of contact with eyes, flush with running water holding eyelids apart (for at least 15 minutes).

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

Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

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

No special treatment needed; treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

5.1.1. Suitable extinguishing media:

Water spray, extinguishing powder, carbon dioxide. In case of large fires, use water spray.
Choose extinguishing media depending on surrounding fire.

5.1.2. Unsuitable extinguishing media:

Full water jet.

5.2. Special hazards arising from the substance or mixture:

The formation of dangerous decomposition products greatly depends on the circumstances of the combustion. A complex mixture of airborne solid, liquid and gas substances may occur, such as carbon monoxide, carbon dioxide and unidentified compounds. The inhalation of such combustion products can have serious adverse effects on health.

5.3. Advice for firefighters:

Wear full protective clothing and self-contained breathing apparatus.
Cool the fire affected containers with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

6.1.1. For non-emergency personnel:

Allow only well-trained experts wearing suitable protective clothing to abide in the field of accident.

6.1.2. For emergency responders:

No special precautions required.

6.2. Environmental precautions:

Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.

6.3. Methods and material for containment and cleaning up:

Collect with absorbent material (such as sand, diatomite, acid binder, universal binder, sawdust).

6.4. Reference to other sections:

For further and detailed information see Sections 7, 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Observe conventional hygiene precautions.

Technical measures:

No special measures required.

Precautions against fire and explosion:

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities:

Technical measures and storage condition:

Store in accordance with applicable regulations.

Incompatible materials: See Section 10.5.

Packaging material: No special prescriptions.

7.3. Specific end use(s):

No specific instructions available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Occupational exposure limit values

United Kingdom (EH40/2005 Workplace Exposure Limits):

Ethanediol (CAS: 107-21-1): Long term: 20 ppm, 52 mg/m³, Short-term: 40 ppm, 104 mg/m³ (particulate), long-term: 10 mg/m³ (vapour)

Belgium (Code of Well-being at Work: Book VI.- Chemical agents, carcinogens, mutagens, reprotoxic agents, and agents with endocrine-disrupting properties (M.B. 10.6.2024):

Ethanediol (CAS: 107-21-1): Long term: 20 ppm, 52 mg/m³, Short-term: 40 ppm, 104 mg/m³ (aerosol)

Ethanediol (CAS: 107-21-1):

DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)
Consumer	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	53 mg/kg bw	no data	7 mg/kg bw
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	106 mg/kg bw	no data	35 mg/kg bw

PNEC values		
Compartment	Value	Note(s)
Freshwater	10 mg/l	no notes
Marine water	1 mg/l	no notes
Freshwater sediment	no data	no notes
Marine water sediment	no data	no notes
Sewage Treatment Plant (STP)	199 mg/l	no notes
Intermittent release	10 mg/l	no notes
Secondary poisoning	no data	no notes
Soil	1.53 mg/kg	no notes

8.2. Exposure controls:

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1. Appropriate engineering controls:

In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin.

8.2.2. Individual protection measures, such as personal protective equipment:

Observe the general safety regulations when handling chemicals.

- Eye/face protection:** During transferring it is recommended to use appropriate protective glasses (EN ISO 16321-1:2022; EN 166).
- Skin protection:**
 - Hand protection:** Use appropriate protective gloves (EN 374).
The glove material should be impermeable and resistant to the product/substance/preparation.
Due to missing tests no recommendation to the glove material can be given for the product.
Select glove material based on the penetration time, rates of diffusion and degradation.
The selection of suitable gloves does not only depend on the material, but also on further marks of quality which may vary from manufacturer to manufacturer.
As the product is a mixture of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked before use.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - Other:** Not required for normal conditions of use.
- Respiratory protection:** Not required.
- Thermal hazards:** No thermal hazards known.

8.2.3. Environmental exposure controls:

No specific prescription.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further protective measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Parameter	Value / Test method / Remarks
1. Physical state	liquid
2. Colour	pale yellow
3. Odour, odour threshold	characteristic
4. Melting point/freezing point	no data*
5. Boiling point or initial boiling point and boiling range	no data*
6. Flammability	not applicable
7. Lower and upper explosion limit	no data*
8. Flash point	not applicable
9. Auto-ignition temperature	not self-igniting
10. Decomposition temperature	no data*
11. pH	no data*
12. Kinematic viscosity	no data*
13. Solubility in water in other solvents	soluble no data*
14. Partition coefficient n-octanol/water (log value)	no data*
15. Vapour pressure	no data*
16. Density and/or relative density	no data*
17. Relative vapour density	no data*
18. Particle characteristics	no data*

9.2. Other information:

9.2.1. Information with regard to physical hazard classes:

Explosive properties: not explosive.

9.2.2. Other safety characteristics:

No other characteristics available.

*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet, or the property is not applicable for the product.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

No reactivity known.

10.2. Chemical stability:

No decomposition under normal conditions of use.

10.3. Possibility of hazardous reactions:

No hazardous reactions known.

10.4. Conditions to avoid:

No conditions to avoid known.

10.5. Incompatible materials:

No incompatible materials known.

10.6. Hazardous decomposition products:

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:

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

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or 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.

Reproductive toxicity: 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.

11.1.1. Summaries of the information derived from the test conducted:

No data available.

11.1.2. Relevant toxicological properties:

Information about the components:

Acute toxicity:

Ethanediol (CAS: 107-21-1):

LD₅₀ (oral, rat): 5840 mg/kg

LD₅₀ (dermal, rabbit): 9530 mg/kg

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (CAS: 55965-84-9):

ATE (oral): 100 mg/l

ATE (dermal): 50 mg/kg

ATE (inhalation): 0.05 mg/l/4 h

11.1.3. Information on likely routes of exposure:

Ingestion, inhalation, skin contact, eye contact.

11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

11.1.6. Interactive effects:

No data available.

11.1.7. Absence of specific data:

No information.

11.2. Information on other hazards:

Endocrine disrupting properties:

Endocrine disrupting property: None of the ingredients is listed.

Other information:

No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

The mixture is not classified as hazardous for the environment.

12.2. Persistence and degradability:

No data available.

12.3. Bioaccumulative potential:

No data available.

12.4. Mobility in soil:

No data available.

12.5. Results of PBT and vPvB assessment:

Not applicable.

12.6. Endocrine disrupting properties:

Endocrine disrupting property: Does not contain endocrine disruptors.

12.7. Other adverse effects:

Do not let the undiluted product or larger quantities of the product enter groundwater, water courses or sewage system.

Water hazard class (WGK, German regulation, self-classification): 1 – slightly hazardous for water.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

Disposal according to the local regulations.

13.1.1. Information regarding the disposal of the product:

Dispose of in accordance with applicable regulations.

Small amounts can be disposed of together with household waste.

List of Waste Code:

No waste disposal key according to the List of Waste Code (LoW code) can be determined for this product, as only the purpose of application defined by the user enables an allocation. The LoW code number has to be determined after a discussion with a waste disposal specialist.

13.1.2. Information regarding the disposal of the packaging:

Dispose of in accordance with applicable regulations.

13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:

No data available.

13.1.4. Sewage disposal:

No data available.

13.1.5. Special precautions for any recommended waste treatment:

No data available.

SECTION 14: TRANSPORT INFORMATION

ADR/RID; ADN; IMDG; IATA:

Not subject to the conventions of carriage of dangerous goods.

14.1. UN number or ID number:

No UN or ID number.

14.2. UN proper shipping name:

No proper shipping name.

14.3. Transport hazard class(es):

No transport hazard classes.

14.4. Packing group:

No packing group.

14.5. Environmental hazards:

Marine pollutant: No.

14.6. Special precautions for user:

No relevant information available.

14.7. Maritime transport in bulk according to IMO instruments:

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive (EC) No 1999/45 and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive (EEC) No 76/769 and Commission Directives (EEC) No 91/155, (EEC) No 93/67, (EC) No 93/105 and (EC) No 2000/21

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives (EEC) No 67/548 and (EC) No 1999/45, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Directive 2012/18/EU:

ANNEX I – PART 2: Named dangerous substances: None of the substances are listed.

Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment:
Annex II: None of the substances are listed.

The mixture does not contain any substances subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

Regulation (EC) No 273/2004 of the European Parliament and of the Council of 11 February 2004 on drug precursors:
None of the substances are listed.

Council Regulation (EC) No 111/2005 of 22 December 2004 laying down rules for the monitoring of trade between the Union and third countries in drug precursors:
None of the substances are listed.

Water hazard class (WGK, German regulation, self-classification): 1 – slightly hazardous for water.

15.2. Chemical safety assessment:

Chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet: No information.

Literature references / data sources:

Safety data sheet issued by the manufacturer (25. 05. 2024, version 1, DE).

Methods used for the classification according to Regulation (EC) No 1272/2008:

Based on the calculation method carried out on the basis of the known hazards of the components, not considered as a hazardous mixture.

Relevant hazard statements (code and full text) of Sections 2 and 3:

H301 – Toxic if swallowed.

H302 – Harmful if swallowed.

H310 – Fatal in contact with skin.

H314 – Causes severe skin burns and eye damage.

H315 – Causes skin irritation.

H317 – May cause an allergic skin reaction.

H318 – Causes serious eye damage.

H319 – Causes serious eye irritation.

H330 – Fatal if inhaled.

H373 – May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400 – Very toxic to aquatic life.

H410 – Very toxic to aquatic life with long lasting effects.

EUH 071 – Corrosive to the respiratory tract.

EUH 208 – Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Training advice: No data available.

Full text of the abbreviations in the safety data sheet:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate.
AOX: Adsorbable organic halides.
BCF: Bioconcentration factor.
BOD: Biological Oxygen Demand.
CAS number: Chemical Abstract Service number.
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
CMR effects: Carcinogenic, mutagenic, reprotoxic effects.
COD: Chemical Oxygen Demand.
CSA: Chemical Safety Assessment.
CSR: Chemical Safety Report.
DNEL: Derived-No-Effect-Level.
ECHA: European Chemical Agency.
EC: European Community.
EC number: EINECS and ELINCS numbers (see also EINECS and ELINCS).
EEC: European Economic Community.
EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European Norm.
EU: European Union.
EuPCS: European Product Categorisation System.
EWC: European Waste Catalogue (replaced by LoW – see below).
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IATA: International Air Transport Association.
ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
IMO: International Maritime Organization.
IMSBC: International Maritime Solid Bulk Cargoes.
IUCLID: International Uniform Chemical Information Database.
IUPAC: International Union of Pure and Applied Chemistry.
Kow: n-Octanol - Water Partition Coefficient.
LC₅₀: Lethal concentration resulting in 50 % mortality.
LD₅₀: Lethal dose resulting in 50 % mortality (median lethal dose).
LoW: List of Waste.
LOEC: Lowest Observed Effect Concentration.
LOEL: Lowest Observed Effect Level.
NOEC: No Observed Effect Concentration.
NOEL: No Observed Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
OECD: Organization for Economic Cooperation and Development.
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic.
PNEC: Predicted No Effect Concentration.
QSAR: Quantitative Structure Activity Relationship.
REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.
SCBA: Self Contained Breathing Apparatus.
SDS: Safety Data Sheet.
STOT: Specific Target Organ Toxicity.
SVHC: Substances of Very High Concern.
UN: United Nations.
UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products or of Biological Materials.
VOC: Volatile Organic Compound.
vPvB: very Persistent and very Bioaccumulative.

Date of issue: 03. 11. 2025

Date of revision: -

Version: 1

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.

The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product.

It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

Safety data sheet was prepared by:

MSDS-Europe
International branch of ToxInfo Kft.

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the explanation of the safety
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