Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier:

Identification as on the label/Trade name: Tire Shine & Protectant
Product number: KC-10.10.050.99, KC-10.10.050.27, KC-10.10.050.28
EAN: 8682729303901, 8682729303307, 8682729303314

1.2 Relevant identification uses of the substance and uses advised against:

Identified uses: to polish rubber surface
Uses advised against: No other uses are advised.

1.3 Details of the Supplier of the Safety Data Sheet:

KOCHMAIER
Minervastr. 36
74613 Öhringen
+49-170-290-6038

1.4 Emergency telephone numbers:

24-hour Emergency Contact:
+49-170-290-6038

Section 2: Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 The mixture is classified according to: Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

Hazard classes/Hazard categories:

2.1.2 Additional information:
--

2.2 Label elements:

Hazard pictogram(s):

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

Signal word: --
Hazard statements:

Precautionary statements:

Response

Storage

Disposal

2.3 Other hazards:
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Ecological information:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Toxicological information:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 3: Composition/Information on Ingredients

3.1 Substance: Not applicable.

3.2 Mixture:

Substance name (IUPAC/EC)	**CAS-No.** **EC-No.**	**Concentration % by weight**	**SCLs, M-Factors, Acute Toxicity Estimates (ATE)**	**Classification** EC1272/2008
Glycerol	56-81-5 200-289-5	100%	-	

No components need to be disclosed according to the applicable regulations

For full text of H-statements, see Section 16.

Section 4: First-Aid Measures

4.1 Description of first aid measures:

If inhaled: After inhalation: fresh air.

In case of skin contact: In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact: After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed: After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed:
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed:
No data available

Section 5: Fire-Fighting Measures

5.1 Extinguisher media:

Suitable extinguisher media: Water Foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media: For this substance no limitations of extinguishing agents are given.

5.2 Special hazards arising from the mixture:

Carbon oxides
Combustible.
Fire may cause evolution of:
Acrolein
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air on intense heating.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Recommendations for firefighting personnel:

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency personnel: For personal protection see section 8.

6.2 Environmental precautions:

Do not let product enter drains.

6.3 Methods for containment and cleaning up:

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions
(see sections 7 and 10). Take up with liquid-absorbent and neutralising material. Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling:

For precautions see section 2.2.

7.2 Conditions for safe storage, including incompatibilities:

Storage conditions

Tightly closed.

Recommended storage temperature see product label.

Storage class

Storage class (TRGS 510): 10: Combustible liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8: Exposure Controls and Personal Protection

8.1 Control parameters:

Occupational exposure limits: Ingredients with workplace control parameters.

8.2 Exposure controls:

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use.

Full contact

Material: Nitrile rubber
Minimum layer thickness: 0,11 mm
Break through time: 480 min
Material tested:
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use.

Splash contact

Material: Nitrile rubber
Minimum layer thickness: 0,11 mm
Break through time: 480 min
Material tested:

Respiratory protection

Recommended Filter type: Filter A-(P2)
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.
These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Physical state: Liquid.
Colour: Brown.
Odour and odour threshold: Odourless.
pH (concentration): ca.5 at 100 g/l at 20 °C (External MSDS)
Melting point/range (°C): Freezing point: 18,17 °C at 1.013 hPa - (ECHA)
Boiling point/range (°C): 290 °C at 1.013,25 hPa
Flash point (°C): 199 °C at ca.1.013 hPa - Pensky-Martens closed cup - ISO 2719

Evaporation rate: No data available.
Flammability (solid, gas): No data available.
Upper/lower flammability/explosive limits: Upper explosion limit: 19 %(V) at 1013 hPa.
Lower explosion limit: 2,7 %(V) at 1013 hPa
Vapour pressure: < 0,001 hPa at 20 °C
Vapour density: 1,261 g/cm3 at 20 °C
Relative density (20 °C): No data available.
Water solubility: 1.000 g/l at 25 °C miscible
Solubility in other solvents: No data available.
n-Octanol/Water partition coefficient: No data available.
Auto-ignition temperature: 370 °C
Decomposition temperature: > 290 °C
Viscosity, dynamic (mPa.s): Viscosity, kinematic: No data available
Viscosity, dynamic: 1.412 mPa.s at 20 °C - OECD Test Guideline 114612 mPa.s at 30 °C - OECD Test Guideline 11414,8 mPa.s at 100 °C - OECD Test Guideline 114

9.2 Other data:
9.2.1 Additional information:
Volatile organic compounds: No data available.
Miscibility: No data available.
Conductivity: No data available.
Evaporation rate: No data available.
Viscosity: No data available.
Oxidising properties: No data available.
Liposolubility: No data available.
Characteristic properties of substance groups peroxides: No data available.
9.2.2 Other safety characteristics:
Surface tension: ca.63,4 mN/m at 1.000g/l at 20 °C
Relative vapor density : 3,18 - (Air = 1.0)

Section 10: Stability and Reactivity

10.1 Reactivity: Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability: The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions:

Risk of explosion with:
halogens
Strong oxidizing agents
peroxi compounds
hydrogen peroxide
Nitriles
perchloric acid
with
Lead oxides
Nitric acid
with
sulfuric acid

Risk of ignition or formation of inflammable gases or vapours with:
potassium permanganate
hydrides
calcium hypochlorite
Fluorine
with
Lead oxides

Exothermic reaction with:
Oxides of phosphorus
chromium(VI) oxide
phosphorus halides
Acetic anhydride
with
phosphorous oxichloride
with
Nitrobenzene

10.4 Conditions to avoid: Strong heating.

10.5 Incompatible materials: No data available.

10.6 Hazardous decomposition products: In the event of fire: see section 5.

Section 11: Toxicological Information

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

Acute toxicity:
LD50 Oral - Rat - female - 27.200 mg/kg
Remarks: (ECHA)
LC50 Inhalation - Rat - male and female - 4 h - > 5.850 mg/l – aerosol
Remarks: (ECHA)
LD50 Dermal - Guinea pig - male and female - 56.750 mg/kg Remarks: (ECHA)

Skin corrosion/irritation:
Skin - Rabbit
Result: No skin irritation - 24 h

Remarks: (ECHA)
Serious eye damage/irritation:
Eyes - Rabbit
Result: No eye irritation - 7 Days
Remarks: (ECHA).
Respiratory or skin sensitization:
Local lymph node assay (LLNA) - Mouse
Result: negative
(OECD Test Guideline 429).
Germ cell mutagenicity: Test Type: Ames test
Test system: S. typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
Remarks: (IUCLID)
Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
Test Type: sister chromatid exchange assay
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
Test Type: unscheduled DNA synthesis assay
Test system: rat hepatocytes
Method: OECD Test Guideline 482
Result: negative
Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Millipore- 8.18709 Page 8 of 12
The life science business of Merck operates as MilliporeSigma in the US and
Canada
Method: OECD Test Guideline 473
Result: negative
Carcinogenicity: Not classified. Based on available data, the classification criteria are not met.
Reproductive toxicity: Not classified. Based on available data, the classification criteria are not met.
STOT-single exposure: Not classified. Based on available data, the classification criteria are not met.
STOT-repeated exposure: Not classified. Based on available data, the classification criteria are not met.
Aspiration hazard: Not classified. Based on available data, the classification criteria are not met.

11.2 Information regarding other hazard classes which relates to endocrine disrupting properties:
Endocrine disrupting properties:
Product:
Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article

57(f) or Commission Delegated regulation (EU)
2017/2100 or Commission Regulation (EU)
2018/605 at levels of 0.1% or higher.
Repeated dose toxicity - Rat - male - Oral - 28 Days - NOAEL (No observed adverse effect level) - > 1.600 mg/kg
Remarks: (ECHA)
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

12.1 Toxicity:

Toxicity to fish	static test LC50 - Oncorhynchus mykiss (rainbow trout) - 54.000. mg/l - 96 h Remarks: (ECHA)

12.2 Persistence and degradability:

Biodegradability	aerobic - Exposure time 1 d Result: 94 % - Readily biodegradable. Remarks: (ECHA)
Biochemical Oxygen Demand (BOD)	870 mg/g Remarks: (External MSDS)
Chemical Oxygen Demand (COD)	1.160 mg/g Remarks: (External MSDS)
Theoretical oxygen Demand	1.217 mg/g Remarks: (Lit.)
Ratio BOD/ThBOD	71 % Remarks: (Lit.)

12.3 Bioaccumulative potential: No data available.
12.4 Mobility in soil: No data available.
12.5 Results of PBT& vPvB assessment: No PBT or vPvB substances present in concentrations of >=0.1%
12.6 Endocrine disrupting properties: No endocrine disruptors present at concentration of >= 0.1%
12.7 Other adverse effects: No data available.

Section 13: Disposal Considerations

13.1 Waste treatment methods: Dispose of according to local regulations.
Packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14: Transport Information

14.1 UN number: 1760
14.2 UN proper shipping name: CORROSIVE LIQUID, N.O.S.
14.3 Transport hazard class: 8
14.4 Packing group: III
14.5 Environmental hazards: No.
14.6 Special precautions for user: Refer to Sections 6 – 8
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 for the mixture:

Directive 98/24/CE (Risks related to chemical agents during work)
Directive 2000/39/EC (Occupational exposure limits)
Regulation (EC) 1907/2006 (REACH)
Regulation (EC) 1272/2008 (CLP)
Regulation (EC) 790/2009 (ATP 1 CLP) and (EU) no. 758/2013
Regulation (EU) 2020/878
Regulation (EU) 286/2011 (ATP 2 CLP)
Regulation (EU) 618/2012 (ATP 3 CLP)
Regulation (EU) 487/2013 (ATP 4 CLP)
Regulation (EU) 944/2013 (ATP 5 CLP)
Regulation (EU) 605/2014 (ATP 6 CLP)
Regulation (EU) 1221/2015 (ATP 7 CLP)
Regulation (EU) 918/2016 (ATP 8 CLP)
Regulation (EU) 1179/2016 (ATP 9 CLP)
Regulation (EU) 2017/776 (ATP 10 CLP)
Regulation (EU) 2018/669 (ATP 11 CLP)
Regulation (EU) 2018/1480 (ATP 13 CLP)
Regulation (EU) 2019/521 (ATP 12 CLP)
Regulation (EU) 2020/217 (ATP 14 CLP)
Regulation (EU) 2020/1182 (ATP 15 CLP)
Regulation (EU) 2021/643 (ATP 16 CLP)
ECHA website
RIGOLETTO website (WGK)
IFA GESTIS (OEL) website

SVHC Substances: This product does not contain substances of very high concern above the corresponding legal concentration limit. (≥ 0.1 % w/w) according to EC regulation 1907/2006 (REACH), article 57.

15.2 Chemical Safety Assessment carried out:

No chemical safety assessment has been carried out for the mixture. The Safety Data Sheet incorporates the relevant information on the components of the mixture and, where possible, includes related exposure scenarios.

Section 16: Other Information

Indication of changes: First version.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM -American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx – Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 – Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG – International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL – Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS – Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI – Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Main bibliographical sources:

The results of toxicological studies or their suppliers.

ECHA website, GESTIS website (international exposure limit values), ACGIH (TLV and Bet).

Notice to readers:

The information detailed here is based on our knowledge up to the date indicated above. Refers exclusively to the product indicated and does not constitute a guarantee of particular qualities. The user must ensure the suitability and accuracy of said information in relation to the specific use to be made of the product.

List of abbreviations:

ACGIH American Conference of Governmental Industrial Hygienists
ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road
ALARA As Low As Is Reasonably Achievable
AMU Atomic Mass Unit
ANSI American National Standards Institute
CAM Continuous Air Monitor
CAS Chemical Abstracts Service (division of the American Chemical Society)
CEN European Committee for Standardization
CERCLA Comprehensive Environmental Response Compensation and Liability Act
CLP Classification, Labelling and Packaging (European Union)
CPR Controlled Products Regulations (Canada)
CWA Clean Water Act (USA)
DAC Derived Air Concentration (USA)
DOT United States Department of Transportation (USA)
DSL Domestic Substances List (Canada)

EC50 Half Maximal Effective Concentration
EINECS European Inventory of Existing Commercial Chemical Substances
EHS Environmentally Hazardous Substance
ELINCS European List of Notified Chemical Substances
EMS Emergency Response Procedures for Ships Carrying Dangerous Goods
EPA Environmental Protection Agency (USA)
EPCRA Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986
GHS Globally Harmonized System
HMIS Hazardous Materials Identification System (USA)
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC Intermediate Bulk Containers
ICAO International Civil Aviation Organization
IDLH Immediately Dangerous to Life or Health

LC50 Lethal concentration, 50 percent
LD50 Lethal dose, 50 percent
LDLO Lethal Dose Low
LOEC Lowest-Observed-Effective Concentration
MARPOL International Convention for the Prevention of Pollution from Ships
MSHA Mine Safety and Health Administration (USA)
NCRP National Council on Radiation Protection & Measurements (USA)
NDSL Non-Domestic Substances List (Canada)
NFPA National Fire Protection Association (USA)
NIOSH National Institute for Occupational Safety and Health (USA)
NOEC No Observed Effect Concentration
N.O.S. Not Otherwise Specified
NRC Nuclear Regulatory Commission (USA)
NTP National Toxicology Program (USA)
OSHA Occupational Safety and Health Administration (USA)
PBT Persistent Bioaccumulative and Toxic Chemical
PEL Permissible Exposure Limit
PIH Poisonous by Inhalation Hazard
RCRA Resource Conservation and Recovery Act (USA)
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (Europe)
RID Regulations Concerning the International Transport of Dangerous Goods by Rail
RTECS Registry of Toxic Effects of Chemical Substances
SARA Superfund Amendments and Reauthorization Act (USA)
TDG Transportation of Dangerous Goods (Canada)
TIH Toxic by Inhalation Hazard
TLV Threshold Limit Value
TPQ Threshold Planning Quantity
TSCA Toxic Substances Control Act
TWA Time Weighted Average
UN United Nations (Number)
VOC Volatile Organic Compound
vPvB Very Persistent Very Bioaccumulative Chemical
WHMIS Workplace Hazardous Materials Information System