

# MATERIAL SAFETY DATA SHEET

Regulation(EC) No 1907/2006(REACH), Annex II

(COMMISSION REGULATION(EU) NO 453/2010)

Version 1

Issue Date 29 Dec 2023

Production Name antirust lubricant

Revision date 29 Dec 2023

## Section 1-Chemical product and company identification

Trade name: Antirust lubricant

Size: 100ml-450ml

Effective Date: 2023 12 18

MSDS#: 2020748858

Information department: Technology Department

Emergency information: TEL 86-20-82833999 if located outside of China

## Section 2 - Composition / Information on Ingredients

ITME	Ingredient Name	CAS Number	% weight
01	Refined white oil	8012-95-1	10%
02	Petroleum sulfonate	61789-85-3	5%
03	Pentaerythritol oleate	19321-40-5	15%
04	Propane	74-98-6	35%
05	Butane	106-97-8	35%

## Section 3 - Hazards Identification

### 3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

flammable aerosols Category 1 -(H222)

Germ cell mutagenicity Category 1B -(H340)

Carcinogenicity Category 1B -(H350)

Reproductive Toxicity Category 2 -(H361)

Aspiration toxicity Category 1 -(H304)

Classification according to Directive 67/548/EEC or 1999/45/EC

Xn -Harmful

F+ -Extremely flammable

F+; R12

Carcinogenic, Category 1; R45

Mutagenic Category 2; R46

Xn; R65

Toxic for reproduction Category 3; R63mouth, throat and stomach.

3.2 Label elements  
Symbols/Pictograms



Signal word

Danger

Hazard Statements

H222 -Extremely flammable aerosol

H304 -May be fatal if swallowed and enters airways

H340 -May cause genetic defects

H350 -May cause cancer

H361 -Suspected of damaging fertility or the unborn child

P264 -Wash face, hands and any exposed skin thoroughly after handling

P273 -Avoid release to the environment

P301 + P310 -IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P331 -Do NOT induce vomiting

P405 -Store locked up

P501 -Dispose of contents/ container to an approved waste disposal plant

P210 -Keep away from heat/sparks/open flames/hot surfaces. -No smoking

P211 -Do not spray on an open flame or other ignition source

P251 -Pressurized container: Do not pierce or burn, even after use

P410 + P412 -Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 ° F

3.3 Other hazards

No information available

## Section 4 - First aid measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**FIRST AID - SKIN CONTACT:** Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**FIRST AID - INGESTION:** Get medical attention immediately. If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

## Section 5 - Fire-Fighting Measures

**Extinguishing Media:** Dry chemical, foam, carbon dioxide., sand . Water jets are not suitable for fire fighting.

**General Fire Hazards:** Flammable liquid. Do not spray near sources of ignition such as open flames, sparks, hot surfaces or burning cigarettes. Aerosol cans may explode if heated above 54 degrees Celsius.

**Fire-Fighting Equipment/Instructions:** Wear self-contained breathing apparatus. If possible remove aerosol containers from the vicinity of the fire. Otherwise keep containers as cool as possible by spraying with water from a protected position.

## Section 6 - Accidental Release Measures

**Containment Procedures:** Contain the discharge material. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

**Clean-Up Procedures:** Attempt to reclaim the free product, if this is possible. If molten product spilled, solidify and recover.

**Evacuation Procedures:** Isolate area. Keep unnecessary personnel away.

**Special Instructions:** Avoid inhalation of fumes from molten product. Avoid skin contact with molten resins. Wear appropriate protective equipment and clothing during clean-up. Do not allow the spilled product to enter public drainage systems or open water courses.

## Section 7 - Handling and Storage

**Procedures for Handling:** Avoid breathing fumes if this product is used at high temperatures. Keep away from potential sources of ignition. Wash hands after handling and before eating.

**Recommended Storage Methods:** Keep the container tightly closed and in a cool, well-ventilated place. Store away from strong oxidizers. Do not store this material in open and unlabeled containers.

## Section 8 - Exposure Controls / Personal Protection

### Exposure Guidelines:

A. General Product Information - If oil mists are generated, observe the OSHA exposure limit of 5 mg/m<sup>3</sup>.

B. Component Exposure Limits - No ACGIH, NIOSH or OSHA exposure guidelines listed for the product's components.

**Engineering Controls:** Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

**Eye / Face Protection:** Wear safety goggles or faceshield when working with melted material.

**Skin Protection:** Chemically resistant gloves with thermal protection when working with melted paraffin.

**Respiratory Protection:** Under normal conditions, respirator is not normally required.

**General:** Use good industrial hygiene practices.

## Section 9 - Physical and Chemical Properties

**Physical State:** liquid

**Appearance:** transparent

**Odor:** Not available

**Odor Threshold:** Not available

**Vapor Pressure:** Compressed gas

**Vapor Density:(water=1):**0.8

**Flash Point:**N/A

**Boiling Point:** >35°C

**Melting Point:** <0°C

**% Volatile :**40-60

**Evaporation Rate:** slow

**pH:** N/A

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable

**Hazardous Polymerization:** Hazard polymerization will not occur.

**Chemical Incompatibilities:** Strong oxidizing agents, strong acids and strong base

**Conditions to Avoid (Stability):** Avoid excessive heat and all sources of ignition.

**Hazardous Decomposition Products:** Carbon dioxide, carbon monoxide.

## Section 11- Toxicological Information

### Acute Toxicity / Target Organ Information:

A. General Product / Component Information - This material is typically inert. Paraffin fumes are a result of overheating product. Fumes are known to be mildly irritating to the nose, throat, and eyes.

B. Component LD50 / LC50 - No data available for product.

Epidemiology: No data available for product.

Carcinogenicity:

A. General Product / Component Information - Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.

B. Component Carcinogenicity Listings - None of this product's components are listed by ACGIH, IARC, NIOSH, NTP or OSHA.

**Teratogenicity / Reproductive Effects:** No data available for the product as a whole.

**Neurotoxicity:** No data available for the product as a whole.

**Mutagenicity:** No data available on this product as a whole.

**Other Information:** No other information available.

## Section 12 - Ecological Information

**Ecotoxicity:** No information is available on ecotoxicity of this product. Keep product out of sewers and waterways.

**Environmental Fate:** No information is available.

## Section 13 - Disposal Considerations

### U.S. EPA Waste Number & Descriptions:

A. General Product Information - Product as shipped does not meet the definition or characteristics of a hazardous waste.

B. Component Waste Numbers - No EPA Waste Numbers are applicable for this product's components.

**Disposal Instructions:** Incinerate the material under controlled conditions in an approved incinerator.

## Section 14 - Transport Information

**Proper Shipping Name:** Aerosol

**Hazard Class:** 2.1

**Identification number:** N/A

**ADR/RID class:** 2.1  
**IMDG Class:**IMO 2.1  
**ICAO/IATA Class:** 2.1  
**Packing Group:** II  
**EMS Number:** F-D S-D S-U  
**MFAG:** F-D S-D S-U  
**UN-Number:** 1950

## Section 15 - Regulatory Information

### U.S. Federal Regulatory Information:

- A. General Product Information - All components of this product are listed on the U.S. EPA TSCA Inventory.
- B. Component Information - None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4).

### State Regulations:

- A. General Product Information - No components require labeling under California Proposition 65.
- B. Component Information - None of this product's components are listed on the state lists from CA, FL, MA, MN, NJ, or PA.

### Other Regulations:

- A. General Product Information - All known (non-proprietary) components of this product are listed on the EINECS inventory of existing chemicals.
- B. Component Information - None of this product's components are listed on the Canadian Controlled Product Ingredient Disclosure List.

## Section 16 - Other Information

### This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Veslee be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Veslee has been advised of the possibility of such damages

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Typical characteristics			
Property	Method	Unit	Value
Density at 20°C	ASTM D1122	g/ml	1.12
Colour	Visual	-	Magenta
Kinematic viscosity KV 20	ASTM D-7042	mm <sup>2</sup> /s	25
Boiling point	ASTM D 1120	°C	> 163
pH value	ASTM D1287	-	8.6
Cloud point 1:1 coolant:water	ASTM D1177	°C / °F	-37 / -34.6

### Recommended use:

- VW TL 774-G (G12++)
- BS 6580
- MAN 324 Si-OAT
- ASTM D3306
- SAE J1034
- MB 325.5/325.6
- AFNOR NF R 15-601
- Deutz DQC CC-14
- Scania TB 1451

### In addition, this product is recommended when compliance with the following filling regulations is required:

- JIS K 2234

### DE Korrosions- / Frostschutzmittel G12++ (-35°C Fertiggemisch)

#### Beschreibung

Es handelt sich um ein hochwertiges und langlebiges Kühlerfrostschutz Fertiggemisch auf Basis von Monoethylenglykol. Frei von Nitriten, Aminen und Phosphaten ist es die ideale Lösung für Aluminium- und Gusseisenmotoren.

Es bietet zuverlässigen Schutz vor Ablagerungen und Schaumbildung und sorgt für eine optimale Wärmeabfuhr. Es wird entsprechend den Herstellerangaben in vielen Verbrennungsmotoren eingesetzt

#### Vorteile

- Direkt einsetzbar: Ready-Mix mit destilliertem Wasser
- Schützt bis -35°C
- Einfache anwendbar
- Rückwärtskompatibel zu den früheren VW-Anwendungen G12+, G12 und G11 (TL 774 C-F)
- Geeignet für den Einsatz in Guss- und Aluminiummotoren
- Keine Chance für Ablagerungen und Kavitation
- Reduzierte Schaumneigung
- Schützt überzeugend und lang anhaltend vor Korrosion
- Kann mit anderen Frostschutzmitteln gleicher Spezifikation gemischt werden. Um jedoch die vollen Produktvorteile auszuschöpfen, empfehlen wir einen kompletten Kühlmittelwechsel.

**Haltbarkeit/Lagerung: 5 Jahre bei sachgemäßer Lagerung im ungeöffneten Originalgebinde (ohne Sonne, Frost und Regen) bei einer Lagertemperatur zwischen +5°C und 40°C!**

Diese Kennwerte sind typisch für eine aktuelle Produktion. Die Daten beinhalten keine Zusicherung von Eigenschaften oder die Garantie einer Eignung für einen speziellen Anwendungsfall. Bestehende gesetzliche Bestimmungen und Verordnungen, welche die Handhabung und den Einsatz der Produkte betreffen, sind vom Empfänger unserer Produkte selbst zu beachten. Unsere Produkte werden kontinuierlich weiterentwickelt. Deshalb behalten wir uns das Recht vor, alle technischen Daten dieser Produktinformation jeder Zeit und ohne Vorankündigung zu ändern.

### EN Coolant G12++ (-35°C, premixed)

#### Description

This is a high-quality and long-lasting premixed radiator antifreeze based on monoethylene glycol. Free of nitrites, amines and phosphates, this is the ideal solution for aluminium and cast-iron engines.

It offers reliable protection against deposits and foam formation, and ideal heat dissipation is ensured. In accordance with the manufacturer's specifications, it is utilised in many combustion engines.

#### Benefits

- The ready-mix is immediately ready to use - without dilution
- Reliable antifreeze protection to -35°C
- Straightforward application
- Backwards-compatible with the earlier G12+, G12 and G11 VW applications (TL 774-C-F)
- Suitable for use in cast-iron and aluminium engines
- Anti-cavitation properties
- Reduced foaming propensity
- Excellent long-lasting corrosion protection
- It is recommended that a full coolant change is carried out when switching to this coolant. However, it can be mixed - and is compatible with - other coolants of the same specification

**Durability/storage: 5 years at proper storage in the unopened original package, with no exposure to sun, frost or rain, at a bearing temperature between +5 °C and 40 °C!**

These key figures are typical for the current production. The data does not contain any representation of properties or a guarantee of suitability for a specific application. Applicable statutory provisions and regulations regarding handling and use of the products must be observed by the recipient of our products. Our products are subject to continuous development. Therefore, we reserve the right to change all technical data of this product information at any time and without any advance warning.

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### FR Antigel G12++ (mélange prêt-à-l'emploi, -35 °C)

#### Description

Cet antigel de dernière génération, prêt à l'emploi, de haute qualité et de longue durée, est constitué d'une base de monoéthylène glycol. Exempt de nitrites, d'amines et de phosphates, c'est la solution idéale pour les moteurs en aluminium et en fonte.

Il offre une protection fiable contre les dépôts et la formation de mousse, et assure une dissipation idéale de la chaleur. Conformément aux spécifications du fabricant, il est utilisé dans de nombreux moteurs à combustion.

#### Avantages

- Le mélange est immédiatement prêt à l'emploi - sans dilution.
- Protection antigel jusqu'à -35°C
- Simple d'utilisation
- Rétro compatible avec les anciennes applications G12+, G12 et G11 VW (TL 774-C-F)
- Adapté aux moteurs en fonte et en aluminium.
- Propriétés anti-cavitation
- Propension réduite à la formation de mousse
- Excellente protection contre la corrosion dans la durée
- Il est recommandé de procéder à une vidange complète du liquide de refroidissement lors du passage à ce liquide. Cependant, il peut être mélangé - et est compatible - avec d'autres liquides de refroidissement de même spécification.

**Conservation / stockage : 5 ans en cas de stockage en bonne et due forme dans l'emballage d'origine non ouvert (sans soleil, gel et pluie) à une température de stockage comprise entre +5°C et 40°C !**

Ces valeurs caractéristiques sont typiques pour une production actuelle. Les données ne contiennent aucune assurance de propriétés ou la garantie d'une convenance pour un cas d'utilisation particulier. Les dispositions légales et réglementations existantes qui concernent la manipulation et l'utilisation des produits doivent être respectées par le destinataire de nos produits lui-même. Le développement de nos produits se poursuit de façon continue. C'est la raison pour laquelle nous nous réservons le droit de modifier toutes les caractéristiques techniques de cette information sur le produit à tout moment et sans annonce préalable.

### IT Refrigerante G12++ (-35°C, premiscelato)

#### Descrizione del prodotto

È un antigelo per radiatori di ultima generazione, di alta qualità e di lunga durata, a base di glicole monoetilico. Privo di nitriti, ammine e fosfati, è la soluzione ideale per i motori in alluminio e ghisa.

Offre una protezione affidabile contro i depositi e la formazione di schiuma e garantisce una dissipazione ideale del calore. In conformità alle specifiche del produttore, viene utilizzato in molti motori a combustione.

#### Vantaggi

- La miscela è immediatamente pronta per l'uso, senza diluizione.
- Protezione antigelo affidabile fino a -35°C
- Applicazione semplice

• Retrocompatibile con le precedenti applicazioni G12+, G12 e G11 VW (TL 774-C-F)

• Adatto per l'uso in motori in ghisa e alluminio

• Proprietà anti-cavitazione

• Ridotta propensione alla formazione di schiuma

• Eccellente protezione dalla corrosione di lunga durata

• Si raccomanda di effettuare un cambio completo del refrigerante quando si passa a questo refrigerante. Tuttavia, può essere miscelato ed è compatibile con altri refrigeranti della stessa specifica.

**Durata/conservazione: 5 anni se conservato correttamente nel contenitore originale chiuso (non esposto a sole, gelo e pioggia) ad una temperatura compresa tra +5°C e 40°C!**

Questi parametri sono tipici per una produzione attuale. I dati non forniscono alcuna garanzia delle proprietà e dell'idoneità in un caso di applicazione specifica. Le disposizioni di legge e le norme esistenti che riguardano l'uso e l'applicazione devono essere osservati dal destinatario dei nostri prodotti. I nostri prodotti vengono continuamente migliorati. Ci riserviamo pertanto il diritto di modificare tutti i dati tecnici di queste informazioni in qualsiasi momento e senza preavviso.

### ES Anticorrosivo/anticongelante G12++ (-35 °C, mezcla lista para usar)

#### Descripción

Es un anticongelante para radiadores premezclado de última generación, de alta calidad y larga duración, a base de monoetilenglicol. Sin nitritos, aminas ni fosfatos, es la solución ideal para motores de aluminio y hierro fundido.

Ofrece una protección fiable contra los depósitos y la formación de espuma, y garantiza una disipación ideal del calor. De acuerdo con las especificaciones del fabricante, se utiliza en muchos motores de combustión.

#### Ventajas

- La mezcla preparada está inmediatamente lista para su uso, sin dilución
- Protección anticongelante fiable hasta los -35 °C
- Fácil de usar
- Compatible con las aplicaciones anteriores G12+, G12 y G11 (TL 774 C-F) de Volkswagen
- Apto para su uso en motores de hierro fundido y aluminio
- Propiedades anticavitación
- Tendencia reducida a la formación de espuma
- Excelente protección contra la corrosión de larga duración
- Se puede mezclar con otros anticongelantes de la misma especificación. Sin embargo, para sacar el máximo partido de las ventajas del producto, recomendamos un cambio completo del refrigerante.

**Durabilidad/almacenamiento: ¡La duración es de 5 años si se almacena correctamente en el envase original sin abrir (sin sol, heladas ni lluvia) a una temperatura de almacenamiento entre +5°C y 40°C!**

Estos datos son típicos de la producción actual. Los datos no contienen ninguna representación de propiedades ni garantía de idoneidad para una aplicación específica. Cualquier disposición legal y regulación existente con respecto a la manipulación y el uso de los productos debe ser observada por el propio destinatario de nuestros

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productos. Nuestros productos se siguen desarrollando de forma continua, por eso, nos reservamos el derecho de modificar en cualquier momento todos los datos técnicos de información del producto y sin aviso previo.

### NL Koelvloeistof G12++ (-35 °C gebruiksklaar)

#### Beschrijving

Dit is een gebruiksklaar antivriesmiddel van de laatste generatie, van hoge kwaliteit en met een lange levensduur, op basis van mono-ethyleenglycol. Het is nitriet-, amine- en fosfaatvrij en is de ideale oplossing voor aluminium- en gietijzeren motoren.

Het biedt betrouwbare bescherming tegen afzettingen en schuimvorming. Zo wordt een ideale warmteafvoer gegarandeerd. Volgens de voorschriften van de fabrikant wordt het in veel verbrandingsmotoren gebruikt.

#### Voordelen

- De ready-mix is onmiddellijk klaar voor gebruik, zonder verdunning
- Betrouwbare antivriesbescherming tot -35 °C
- Makkelijk te gebruiken
- Achterwaarts compatibel met de eerdere VW-toepassingen G12+, G12 en G11 (TL 774 C-F)
- Geschikt voor gietijzeren en aluminium motoren
- Anticavitatie-eigenschappen
- Verminderde schuimneiging
- Uitstekende en langdurige bescherming tegen corrosie
- Bij overschakeling op deze koelvloeistof wordt aanbevolen de koelvloeistof volledig te verversen. Hij kan echter worden gemengd - en is compatibel met - andere koelvloeistoffen met dezelfde specificaties.

**Houdbaarheid/opslag: 5 jaar bij goede opslag in de ongeopende originele container (zonder zon, vorst en regen) bij een bewaartemperatuur tussen +5°C en 40°C!**

Deze parameters zijn typerend voor een huidige productie. De gegevens impliceren geen enkele garantie van eigenschappen of de garantie van geschiktheid voor een specifieke toepassing. Bestaande wettelijke bepalingen en voorschriften met betrekking tot de behandeling en het gebruik van de producten moeten door de ontvanger van onze producten zelf in acht worden genomen. Onze producten worden continu verder ontwikkeld. Daarom behouden wij ons het recht voor om alle technische gegevens van deze productinformatie op elk moment en zonder voorafgaande kennisgeving te wijzigen.

### PL Płyn chłodzący G12 ++ (-35°C, gotowy do użycia)

#### Opis

Jest to najnowszej generacji, długotrwały, wysokiej jakości i gotowy płyn do chłodnic na bazie glikolu monoetylenowego. Nie zawiera azotynów, amin i fosforanów, jest idealnym rozwiązaniem dla silników z kadłubami aluminiowymi i żeliwnymi.

Zapewnia niezawodną ochronę przed powstawaniem osadów i piany oraz zapewnia idealne odprowadzanie ciepła. Zgodnie z zaleceniami producenta stosowany jest w wielu silnikach spalinowych.

## Zalety

- Przygotowana mieszanka jest od razu gotowa do użycia - bez rozcieńczenia
- Niezawodna ochrona przed zamarzaniem do -35°C
- Prosta aplikacja
- Zgodność z wcześniejszymi aplikacjami VW G12+, G12 i G11 (TL 774-C-F)
- Odpowiedni do stosowania w silnikach z kadłubami aluminiowymi i żeliwnymi
- Właściwości antykawitacyjne
- Zmniejszona skłonność do pienienia
- Doskonała długotrwała ochrona przed korozją

• Zaleca się przeprowadzenie pełnej wymiany płynu chłodzącego przy zmianie na ten płyn chłodzący. Można go jednak mieszać - i jest kompatybilny z - innymi płynami chłodzącymi o tej samej specyfikacji.

**Trwałość / magazynowanie: 5 lat w przypadku prawidłowego przechowywania w oryginalnym, nieotwartym opakowaniu (bez słońca, mrozu i deszczu) w temperaturze przechowywania od +5°C do 40°C!**

Te wartości charakterystyczne są typowe dla bieżącej produkcji. Dane te nie stanowią zapewnienia właściwości ani gwarancji przydatności do konkretnego zastosowania. Obowiązujące przepisy prawne i regulacje dotyczące obchodzenia się z produktami i ich użytkowania muszą być przestrzegane przez samych odbiorców naszych produktów. Nasze produkty są stale udoskonalane. Dlatego zastrzegamy sobie prawo do zmiany wszystkich danych technicznych zawartych w niniejszej informacji o produkcie w dowolnym czasie i bez wcześniejszego powiadomienia.

### PT Anticongelante G12++(-35°C, diluído)

#### Descrição

Trata-se de uma mistura de anticongelante de última geração pronta a utilizar, de elevada qualidade e longa duração, à base de monoetilenglicol. Livre de nitritos, aminas e fosfatos, é a solução ideal para motores de alumínio e ferro fundido.

Oferece proteção fiável contra depósitos e formação de espuma, e a dissipação de calor ideal é garantida. De acordo com as especificações do fabricante, é utilizado em muitos motores de combustão.

#### Benefícios

- A mistura está pronta a utilizar - não necessita de diluição
- Proteção anticongelante estável até -35°C
- Aplicação direta
- Compatível com as especificações anteriores VW G12+, G12 e G11 (TL 774-C-F)
- Adequado para uso em motores de ferro fundido e alumínio
- Propriedades anti-cavitação
- Propensão reduzida à formação de espuma
- Excelente proteção anti-corrosão de longa duração
- Recomenda-se que seja realizada a substituição na íntegra do líquido anticongelante ao mudar para um novo. No entanto, este pode ser misturado - e é compatível - com outros anticongelantes da mesma especificação.

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**Validade/armazenamento: 5 anos, em caso de armazenamento correto em recipiente original não aberto (sem sol, geada e chuva) a uma temperatura de armazenamento entre +5°C e 40°C!**

Estes valores característicos são típicos de uma produção atual. Os dados não contêm garantia de características ou garantia de adequação a um caso de aplicação específico. O utilizador dos nossos produtos é responsável pelo cumprimento de disposições e regulamentos legais aplicáveis ao manuseamento e aplicação dos produtos. Os nossos produtos são desenvolvidos continuamente. Por isso, reservamo-nos o direito de alterar todos os dados técnicos da presente informação de produto, a qualquer altura e sem aviso prévio.

### RU Антифриз G12++ (готовая смесь, до -35°C)

#### Описание

Высококачественная готовая к применению смесь антифриза текущего поколения на основе моноэтиленгликоля. Не содержит нитритов, аминов, фосфатов. Готов к применению. Подходит для всех двигателей внутреннего сгорания с жидкостным охлаждением. Гарантирует защиту от замерзания, коррозии, отложений и вспенивания.

Может применяться в двигателях, изготовленных из алюминиевых и чугунных сплавов, согласно спецификациям автопроизводителей, гарантируя идеальный теплоотвод.

#### Преимущества

- Готов к применению, не требует смешивания
- Надежная защита от замерзания до -35 °C
- Соответствует техническим требованиям VW к антифризам предыдущего поколения G12+, G12 и G11 (TL 774 C-F)
- Предназначен для двигателей из алюминиевых и чугунных сплавов
- Защищает от отложений и кавитации
- Предотвращает вспенивание
- Длительная защита от коррозии
- Возможно смешивать только с антифризами, имеющими аналогичные характеристиками. Для использования всех преимуществ продукта рекомендуется полная замена охлаждающей жидкости.

**Срок годности/хранение: 5 лет при правильном хранении в нераспечатанной оригинальной таре (защищать от солнца, мороза и дождя) при температуре в диапазоне +5...+40 °C!**

Эти характеристики типичны для продукции, производимой в настоящее время. Данные не являются гарантией свойств или пригодности в специфических случаях применения. Получатель нашей продукции должен самостоятельно обеспечить выполнение существующих законодательных предписаний и постановлений, которые касаются обращения с продуктами и их использования. Наша продукция постоянно совершенствуется. Поэтому мы оставляем за собой право изменять все технические характеристики данной информации о продукте в любое время и без предварительного уведомления.

### SR Rashladna tečnost G12 ++ (-35 °C gotova mešavina)

#### Opis

Visokokvalitetna i dugotrajna gotova mešavina za zaštitu hladnjaka od smrzavanja najnovije generacije na bazi monoetilen glikola. Ne sadrži nitrite, amine, fosfate, ovo je idealno rešenje za aluminijumske i blokove od livenog gvožđa.

Nudi pouzdanu zaštitu od stvaranja naslaga i penušanja, a optimalno odvođenje toplote je zagarantovano. Prema specifikacijama proizvođača, koristi se u mnogim motorima sa unutrašnjim sagorevanjem.

#### Prednosti

- Може се користити директно течност без додатног мешања са destilovanom vodom
- Pruža zaštitu do -35 °C
- Jednostavna primena
- Kompatibilan sa ranijim VW verzijama G12+, G12 i G11 (TL 774 C-F)
- Pogodan za upotrebu u motorima od livenog gvožđa i aluminijuma
- Sprečava stvaranje kavitacije
- Smanjena mogućnost penušanja
- Pruža efikasnu i dugotrajnu zaštitu od korozije
- Preporučeno je da se prilikom prelaska na ovaj proizvod izvrši potpuna zamena fluida. U svakom slučaju, može se mešati i kompatibilno je sa drugim rashladnim tečnostima iste specifikacije.

**Rok trajanja/Skladištenje: 5 godina ako se pravilno skladišti u neotvorenoj originalnoj ambalaži (bez sunca, mraza i kiše) na temperaturi skladištenja između +5°C i 40°C!**

Ovi parametri su tipični za trenutnu proizvodnju. Podaci ne uključuju nikakvu garanciju o svojstvima ili garanciju prikladnosti za posebnu primenu. Postojeće zakonske odredbe i propisi koji uređuju na posedovanje i upotrebu proizvoda korisnik našeg proizvoda mora poštovati. Naši proizvodi se kontinuirano razvijaju. Stoga zadržavamo pravo izmene svih tehničkih podataka u ovim informacijama o proizvodu u bilo koje vreme i bez prethodne najave.

### TR Antifriz G12++ (-35°C, önceden karıştırılmış)

#### Açıklama

Monoetilen glikol bazlı, son nesil, yüksek kaliteli ve uzun ömürlü bir antifriz hazır karışımdır. Nitrit, amin ve fosfat içermeyen bu ürün, alüminyum ve dökme demir motorlar için ideal çözümdür.

Tortulara ve köpük oluşumuna karşı güvenilir koruma sağlar ve ideal ısı dağılımı sağlar. Üreticinin spesifikasyonlarına uygun olarak birçok yanmalı motorda kullanılır.

#### Avantajları

- Hazır karışım sulandırılmadan hemen kullanıma hazırdır
- 35°C'ye kadar güvenilir antifriz koruması
- Basit uygulama
- Daha önceki G12+, G12 ve G11 VW uygulamaları ile geriye dönük uyumludur (TL 774-C-F)
- Dökme demir ve alüminyum motorlarda kullanım için

# INFO

## febi

172018 (1I)  
172019 (5I)  
172020 (10I)

## SWAG

33 10 1133 (1I)  
33 10 1134 (5I)  
33 10 1135 (10I)

uygundur

- Kavitasyon önleyici özellikler
- Azaltılmış köpürme eğilimi
- Mükemmel uzun ömürlü korozyon koruması
- Bu soğutma sıvısına geçerken tam bir soğutma sıvısı değişimi yapılması tavsiye edilir. Bununla birlikte, aynı spesifikasyona sahip diğer soğutma sıvılarıyla karıştırılabilir ve bunlarla uyumludur

**Raf/depolama ömrü: Orijinal kabı açılmadan, +5°C ile 40°C arası depo sıcaklığında (güneşe, donmaya ve yağmura maruz kalmadan) 5 yıl saklanabilir!**

Bu parametreler güncel ürün için tipik değerlerdir. Veriler, özelliklere yönelik güvence sunmaz veya spesifik uygulamalarda uyumluluğun garantisini deşildir. Ürünlerin kullanımı ve taşınması ile ilgili mevcut yasal hükümler ve yönetmelikler, ürünlerimizin alıcısı tarafından dikkate alınmak zorundadır. Ürünlerimiz sürekli geliştirilmektedir. Bu nedenle, bu ürün bilgilendirme metnindeki tüm teknik verileri önceden bildirimde bulunmaksızın her zaman deęiştirme hakkımız saklıdır.

**AR**  
سائل مقاوم للتآكل/للتجمد G12 ++  
(مزيج جاهز في درجة - 35 مئوية)

### الوصف

الحل المثالي لمحركات الألومنيوم والحديد الصلب: هذا السائل المركز الفائق الجودة والمنتمي إلى أحدث جيل يوفر حماية مستدامة ضد تجمد الرادياتير على أساس أحادي إيثيلين جلايكول. خالٍ من النتريت، والأمينات، والفوسفات .

### المزايا

- قابل للاستخدام مباشرة مزيج جاهز بالماء المقطر
- يحمي حتى درجة حرارة - 35
- سهل الاستعمال
- متوافق مع الإصدارات السابقة لاستعمالات VW السابقة + G12 ، و G12 ، و G11 مواصفة ( TL 774 C-F )
- مناسب للاستخدام في محركات الألومنيوم والحديد الصلب
- لا توجد فرصة للرواسب والتكهنه ف
- انخفاض الميل لتكوّن الرغوة
- يوفر حماية فعالة ومستدامة ضد التآكل
- يمكن مزجه مع السوائل الأخرى المقاومة للتجمد ذات المواصفات نفسها. ومع ذلك نوصي بتغيير سائل التبريد بالكامل، من أجل الاستفادة من المزايا الكاملة للمنتج.

فترة الصلاحية/التخزين: 5 سنوات عند تخزينه بشكل صحيح في الحاوية الأصلية غير المفتوحة (دون التعرض لأشعة الشمس والصقيع والمطر) عند درجة حرارة تخزين تتراوح ما بين + 5 °م و 40 °م !

هذه الخصائص تعتبر نموذجية للإنتاج الحالي. لا تتضمن البيانات أية ضمانات للخصائص أو ضمان الملاءمة لحالة استخدام خاصة. يجب على مُستلم المنتج أن يراعي بنفسه الأحكام واللوائح القانونية الحالية التي تؤثر على التعامل مع المنتجات واستخدامها. تخضع منتجاتنا للتطوير المستمر. لذلك نحفظ بالحق في تغيير جميع البيانات الفنية الواردة في نشرة معلومات هذا المنتج في أي وقت ودون إشعار مسبق .



Изготовитель ООО "Черкасский завод автохимии", Украина, г. Черкассы,  
ул. В.Чорновола 118, тел. +38 (0472) 64-24-04, 64-04-90

## ПАСПОРТ КАЧЕСТВА № 16-1855/12

Жидкость охлаждающая низкотемпературная  
Тосол А-30 (М)

ТУ У 24.6-14215951-001:2010 с изменениями 1-6

№	Название показателя	Норма	Факт	Метод испытания
1	Внешний вид	Однородная прозрачная жидкость без механических примесей. Цвет соответствует образцу-эталоноу	Соответствует	ГОСТ 28084-89, п.4.1
2	Плотность при температуре 20 °С, г/см <sup>3</sup> , не меньше	1,055	1,056	ГОСТ 18995.1-73, розділ 1
3	Температура начала кристаллизации, °С, не выше	-28	-29	ГОСТ 28084-89, п.4.3
4	Фракционный состав:			ГОСТ 28084-89, п.4.4
	Температура начала перегонки, °С, не ниже	100	108,0	
	Фракционный состав массовая доля жидкости, перегоняемая до температуры °С, не больше	60	54,3	
5	Коррозионное воздействие на металлы г/м2 сут., не больше *			ГОСТ 28084-89, п.4.5
	<input type="checkbox"/> алюминий	0.1	0,04	
	<input type="checkbox"/> чугун	0.1	0,08	
	<input type="checkbox"/> сталь	0.1	0,03	
	<input type="checkbox"/> медь	0.1	0,04	
	<input type="checkbox"/> латунь	0.1	0,05	
	<input type="checkbox"/> припой	0.2	0,15	
6	Вспениваемость:			ГОСТ 28084-89, п.4.6
	<input type="checkbox"/> Объем пены, см3 не больше	30	15	
	<input type="checkbox"/> Стойкость пены, с, не больше	3	1,8	
7	Набухание резины, %, не больше	5	1,3	ГОСТ 28084-89, п.4.7
8	Водородный показатель(рН), при 20 °С	7,5-11,0	8,8	ГОСТ 28084-89, п.4.8
9	Щелочность, см3 раствора КОН, не меньше	не нормируется	17	ГОСТ 28084-89, п.4.9
10	Температура застывания, °С, не выше	-30	-31	ТУ У 24.6-14215951-001:2010, п.6.13

\*Согласно протокола периодических испытаний № 16-006 от 01.03.2016

Гарантийный срок хранения – 5 лет

Вывод: соответствует требованиям ТУ У 24.6-14215951-001:2010 с изменениями 1-6

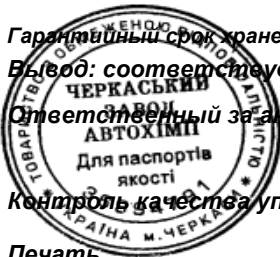
Ответственный за анализ Суржикова Н. Л.

Подпись

Контроль качества упаковки

Подпись

Печать



# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 04.04.2024

Version number 6.1 (replaces version 6.0)

Revision: 04.04.2024

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

- **1.1 Product identifier**
  - **Trade name:** WABCOTHYL™
  - **Article number:** 830 702 087 4, 830 702 088 4, 830 702 089 4
  - **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - **Product category** PC4 Anti-Freeze and de-icing products
  - **Application of the substance / the mixture** Antifreeze agent.
  - **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
ZF CV Distribution Germany GmbH & Co. KG  
Am Lindener Hafen 21  
30453 Hannover  
Germany  
Tel.: +800 438 92226
  - **Informing department:**  
Information available by telephone number for respective country given above.
  - **1.4 Emergency telephone number:**  
844 892 0111  
Emergency control center for poisoning cases Berlin +49 (0) 30 30 686 790 (German and English)
- sds@umweltkanzlei.de

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger
- **Hazard statements**  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.
- **Precautionary statements**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)

GB

# Safety data sheet

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**Trade name: WABCOTHYL™**

(Contd. of page 1)

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

P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	ethanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	≥50-100%
CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28	ethanediol ⚠ STOT RE 2, H373; ⚠ Acute Tox. 4, H302	≥5-<10%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	butanone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	<1%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** If skin irritation continues, consult a doctor.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**
- Daze.
- Headache
- Dizziness
- Breathing difficulty
- Unconsciousness
- Nausea
- **4.3 Indication of any immediate medical attention and special treatment needed**
- No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
- Alcohol resistant foam
- CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
- Can be released in case of fire

(Contd. on page 3)

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(Contd. of page 2)

Carbon monoxide (CO)

· **5.3 Advice for firefighters**· **Protective equipment:**

Wear self-contained breathing apparatus.

Wear full protective suit.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Do not allow to enter the ground/soil.

Prevent material from reaching sewage system, holes and cellars.

Do not allow to enter drainage system, surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** No special precautions necessary if used correctly.· **Information about protection against explosions and fires:**

Use explosion-proof apparatus / fittings and spark-proof tools.

Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**· **Storage**· **Requirements to be met by storerooms and containers:**

Keep away from heat and direct sunlight.

Store only in unopened original receptacles.

Provide solvent resistant, sealed floor.

Store in cool location.

· **Information about storage in one common storage facility:** Not required.· **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

· **Storage class** 3· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**· **Components with limit values that require monitoring at the workplace:****64-17-5 ethanol**WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

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GB

## Safety data sheet

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**Trade name: WABCOTHYL™**

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**107-21-1 ethanediol**

WEL Short-term value: 104\*\* mg/m<sup>3</sup>, 40\*\* ppm  
 Long-term value: 10\* 52\*\* mg/m<sup>3</sup>, 20\*\* ppm  
 Sk \*particulate \*\*vapour

**78-93-3 butanone**

WEL Short-term value: 899 mg/m<sup>3</sup>, 300 ppm  
 Long-term value: 600 mg/m<sup>3</sup>, 200 ppm  
 Sk, BMGV

**· DNELs****64-17-5 ethanol**

Oral	Consumer - Long term - Systemic effects	87 mg/kg bw/day
Dermal	Worker - Long term - Local effects	950 mg/cm <sup>2</sup> skin
	Worker - Long term - Systemic effects	343 mg/kg bw/day
	General population - long term - systemic effects	206 mg/kg bw/day
Inhalative	Worker - Long term - Local effects	950 mg/m <sup>3</sup>
	Consumer - Long term - Systemic effects	114 mg/m <sup>3</sup>
	Worker - Acute - Local effects	1,900 mg/m <sup>3</sup>

**107-21-1 ethanediol**

Dermal	Worker - Long term - Systemic effects	106 mg/kg bw/day
	General population - long term - systemic effects	53 mg/kg bw/day
Inhalative	Worker - Long term - Local effects	35 mg/m <sup>3</sup>
	Consumer - Long term - Local effects	7 mg/m <sup>3</sup>

**· PNECs****64-17-5 ethanol**

PNEC aqua (freshwater)	0.96 mg/l
PNEC Water (Marine water)	0.79 mg/l
PNEC sediment (freshwater)	3.6 mg/kg dw
PNEC Sediment (Marine water)	2.9 mg/kg dw
PNEC Soil	0.63 mg/kg
PNEC microorganisms (STP)	580 mg/l

**107-21-1 ethanediol**

PNEC aqua (freshwater)	10 mg/l
PNEC Water (Marine water)	1 mg/l
PNEC sediment (freshwater)	20.9 mg/kg dw
PNEC Soil	1.53 mg/kg
PNEC microorganisms (STP)	199.5 mg/l

**· Ingredients with biological limit values:****78-93-3 butanone**

BMGV	70 µmol/L
	Medium: urine
	Sampling time: post shift
	Parameter: butan-2-one

**· 8.2 Exposure controls**

- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**  
 Wash hands during breaks and at the end of the work.

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GB

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

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Version number 6.1 (replaces version 6.0)

Revision: 04.04.2024

**Trade name: WABCOTHYL™**

(Contd. of page 4)

- **Breathing equipment:** Filter A.
- **Hand protection**  
Solvent resistant gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves** Butyl rubber, BR
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

- |   |                         |
|---|-------------------------|
| · <b>Physical state</b>   | Fluid                   |
| · <b>Colour:</b>  | Blue                    |
| · <b>Odour:</b>   | Alcohol-like            |
| · <b>Odour threshold:</b>   | Not determined.         |
| · <b>Melting point/freezing point:</b>                            | -114 °C (Ethanol)       |
| · <b>Boiling point or initial boiling point and boiling range</b> | 78 °C (Ethanol)         |
| · <b>Flammability</b>   | Highly flammable.       |
| · <b>Lower and upper explosion limit</b>                          |                         |
| · <b>Lower:</b>   | 3.5 Vol %               |
| · <b>Upper:</b>   | 15 Vol %                |
| · <b>Flash point:</b>   | 18 °C                   |
| · <b>Auto-ignition temperature:</b>                               | 410 °C                  |
| · <b>Decomposition temperature:</b>                               | Not determined.         |
| · <b>pH</b>   | Not applicable.         |
|   | Not determined.         |
| · <b>Viscosity:</b>   |                         |
| · <b>Kinematic viscosity</b>                                      | Not determined.         |
| · <b>dynamic at 20 °C:</b>  | 1.19 mPas               |
| · <b>Solubility</b>   |                         |
| · <b>Water:</b>   | Miscible.               |
| · <b>Partition coefficient n-octanol/water (log value)</b>        | -0.32 log POW (Ethanol) |
| · <b>Vapour pressure at 20 °C:</b>                                | 59 hPa                  |
| · <b>Density and/or relative density</b>                          |                         |
| · <b>Density at 20 °C</b>   | 0.81 g/cm <sup>3</sup>  |
| · <b>Relative density</b>   | Not determined.         |
| · <b>Vapour density</b>   | Not determined.         |

#### · 9.2 Other information

- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

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## Safety data sheet

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· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Highly flammable liquid and vapour.
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid**  
Heat, flames and sparks.  
sources of ignition.
- **10.5 Incompatible materials:**  
Avoid contact with strong oxidizing agents.  
Reaction with strong acids.
- **10.6 Hazardous decomposition products:**  
No decomposition with intended use and storage.  
No dangerous 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.

- **LD/LC50 values that are relevant for classification:**

#### 64-17-5 ethanol

Oral	LD50	10,470 mg/kg (Rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	117-125 ppm (Rat) (OECD 403)

#### 107-21-1 ethanediol

Oral	LD50	>2,000 mg/kg (Rat)
------	------	--------------------

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Dermal	LD50	10,600 mg/kg (Rat) 9,530 mg/kg (rabbit)
--------	------	--

**78-93-3 butanone**

Oral	LD50	>2,600 mg/kg (Rat)
Dermal	LD50	6,400-8,000 mg/kg (rabbit)
Inhalative	LC50/4 h	34.5 mg/l (Rat)

- **Serious eye damage/irritation** Causes serious eye irritation.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

78-93-3	butanone	List II
---------	----------	---------

### SECTION 12: Ecological information

· **12.1 Toxicity**· **Aquatic toxicity:**

<b>64-17-5 ethanol</b>		
------------------------	--	--

EC50 (48 h)	5,012 mg/l (Ceriodaphnia spec.)
LC50 (96 h)	14,200 mg/l (Pimephales promelas)
ErC50 (72 h)	275 mg/l (Chlorella vulgaris)

<b>107-21-1 ethanediol</b>		
----------------------------	--	--

EC50 (48 h)	46,300 mg/l (Daphnia magna)
LC50 (96 h)	41,000 mg/l (Oncorhynchus mykiss) >10,000 mg/l (Pimephales promelas) (OECD 203)
NOEC (7 d)	15,380 mg/l (Pimephales promelas)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
The waste code numbers mentioned are recommendations based on the probable use of the product.

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- **Uncleaned packagings:**
- **Recommendation:**  
Packaging may be reused or recycled after cleaning.  
Dispose of packaging according to regulations on the disposal of packagings.

#### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR/RID/ADN, IMDG, IATA</b></li> </ul>	UN1170
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR/RID/ADN</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	1170 ETHANOL (ETHYL ALCOHOL) ETHANOL (ETHYL ALCOHOL) ETHANOL
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR/RID/ADN, IMDG, IATA</b></li> </ul>	<div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR/RID/ADN, IMDG, IATA</b></li> </ul>	3 Flammable liquids. 3  II
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>	No
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Kemler Number:</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> </ul>	Warning: Flammable liquids. 33 F-E,S-D A
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR/RID/ADN</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II

GB

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# Safety data sheet

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### SECTION 15: Regulatory information

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

· **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category P5c FLAMMABLE LIQUIDS**

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This safety data sheet replaces the earlier version 6.0 for this product.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

EUH066 Repeated exposure may cause skin dryness or cracking.

· **Department issuing data specification sheet:**

The safety data sheets were drawn up in cooperation with the Umweltkanzlei Dr.Rhein Beratungs- und Prüfgesellschaft mbH, Phone: +49 511 228514-0.

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· **\* Data compared to the previous version altered.**

GB



## GLEITMO 585 K

### Heavy-duty grease with white solid lubricants

#### Performance Features

- temperature range: -45 / +130 °C
- provides extensive protection against wear, even when subject to shock load and oscillatory movement
- prevents fretting corrosion
- provides excellent corrosion protection
- permits long lubrication intervals
- very resistant to ageing
- permits machines and systems subject to extreme stress to function reliably



EP properties



low temperatures



anticorrosive



roller bearings



plain bearings

#### Description

GLEITMO 585 K is a high-grade lithium-soap grease on a synthetic oil basis. It contains a synergetically effective combination of white solid lubricants which damp shock loads and reduce wear. GLEITMO 585 K helps to prevent fretting corrosion and permits long lubrication intervals.

#### Field of application

GLEITMO 585 K is used for bearings and lubrication points of all types subject to particularly stringent requirements. For lubrication points subject to risk of fretting corrosion or exposed to oscillatory movements and vibration. Owing to the white coloration, GLEITMO 585 K is also used in applications involving clean conditions, amongst others in textile and paper processing and filling and packaging machines.

## Method of application

Roller bearings: fill free space in bearing and in housing only to approximately 30 to 50 % with GLEITMO 585 K. Regarding bearings which rotate only very slowly the housing can be filled entirely with GLEITMO 585 K. GLEITMO 585 K can be pumped with automatic lubrication devices. Do not mix with greases on a different soap base. Please consult us in case of doubt!

## Technical Data: GLEITMO 585 K

<u>Characteristics</u>	<u>Value</u>	<u>Unit</u>	<u>Test Method</u>
Reference	KPFHC2K-40		DIN 51502
Colour	beige		
Temperature range	-45 /+130	° C	DIN 51825
Base oil	syn		
Thickener	Li		
Solid lubricants	white		
Base oil viscosity [40°C]	50	mm <sup>2</sup> /s	DIN 51562-1
Working stability / penetration drop after:			
100 000 double strokes	max. 40	1/10 mm	
NLGI grade	2		DIN 51818
Moisture content	<0,1	%	DIN ISO 3733
Dropping point	>180	° C	DIN ISO 2176
Water resistance	0-90	rating	DIN 51807-1
Oil separation [40 °C, 7 d]	<5	%	DIN 51817
Flow pressure [-40 °C]	1100	hPa	DIN 51805
Copper strip test [24 h / 100°C]	1	rating	DIN 51811
EMCOR [dist. Water]	0-0	rating	DIN 51802
FAG-FE 8 test [ang. cont ball 7.5 min-1/80 kN]	mw10=3.2 mw50=6.3	mg	E DIN 51819
Qualitative rating	very good		
FAG-FE 9 test A/1500/6000-130	F50>200	h	DIN 51821

LLS = LUBRITECH Laboratory Specification  
Typical for current production. Variations in these characteristics may occur.

# Product Information



**LUBRITECH**  
*Special Application Lubricants*

As far as we know this information reflects the current state of knowledge and our research. It cannot, however, be taken as an assurance about the properties nor as a guarantee of the suitability of the product for the individual case in point. Before using our products the purchaser must, therefore, check their suitability and be satisfied that the output will be satisfactory. Our products undergo continuous improvement. We therefore retain the right to change our product program, the products, and their manufacturing processes as well as all details of our product information sheets at any time and without prior announcement, unless otherwise provided in customer-specific agreements. With the publication of this product information sheet, all previous editions cease to be valid.

We are specialized in developing products for extreme tribological problems in cooperation with end users. FUCHS LUBRITECH provides service and individual advice. Please contact us!  
E-Mail: [info@fuchs-lubritech.de](mailto:info@fuchs-lubritech.de)

MINISTERUL SĂNĂTĂȚII AL REPUBLICII MOLDOVA  
МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ  
РЕСПУБЛИКИ МОЛДОВА  
AGENȚIA NAȚIONALĂ PENTRU SĂNĂTATE PUBLICĂ  
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Centrul de încercări de laborator acreditat de către Centrul  
Național de Acreditare din Republica Moldova MOLDAC  
Испытательный лабораторный центр аккредитованный  
Национальным Аккредитационным Центром РМ MOLDAC  
Certificat nr. LÎ-044 din 17.02.2018 valabil până la 16.02.2026

**AVIZ SANITAR**  
**PENTRU PRODUSELE ALIMENTARE ȘI NEALIMENTARE Nr. P-17027/2023**  
*Санитарное заключение для пищевых и непищевых продуктов*  
**din/от 14 aprilie 2023**

**Prin prezentul aviz sanitar se confirmă că producerea, importul, utilizarea și desfacerea produselor / echipamentelor**  
*Настоящим санитарным заключением подтверждается что производство, ввоз, использование и реализация продукции / оборудования*  
Soluție de spălat parbriz "IARNA" -20 C, -30 C; Soluție de spălat parbriz "VARA", lichid pentru aprinderea focului

**sunt conforme Regulamentului (lor) sanitar (e) / соответствуют санитарному (ым) регламенту (ам) (se va indica denumirea completă a**  
Regulamentului (lor) sanitar (e) / указать полное наименование санитарного (ых) регламента (ов))  
SF 41279445-001:2020, IT MD 41279445-001:2020, SM GOST R 51696:2003 Produse chimice de uz casnic

**Organizația-producătoare/importatoare, țara de origine / организация произв./импортер, страна происхождения**

"AMID-AUTO" SRL, Republica Moldova

**Destinatarul avizului sanitar / получатель санитарного заключения**

AMID-AUTO S.R.L. , Republica Moldova, mun. Chișinău, sec. Botanica, str. Independenței, 42, ap./of. 20

**Temei pentru recunoașterea conformității produselor Regulamentului (lor) sanitar (e) menționat (e) a servit /**

*Основанием для признания продукции указанному (ым) санитарному (ым) регламенту (ам) послужило*

Demers, autorizație sanitară de funcționare, standard de firmă, instrucțiune tehnologică, rețeta, raport de încercări nr.69 din  
17.05.2022, rapoarte a încercărilor de laborator nr.51007043-51007046 din 06.04.2023, din 11.04.2023

(a enumera documentele de însoțire, buletinele de analiză / перечислить сопроводительные док., протоколы исслед.)

**Caracteristica sanitară a produselor / санитарная характеристика продукции:**

**Parametrii (factorii) / показатели (факторы)**

**Normativul sanitar / санитарный норматив**

conform rapoartelor încercărilor de laborator nr.51007043-51007046 din 06.04.2023, din 11.04.2023

**Domeniu de utilizare / Область применения:**

întreținere auto

**Condițiile necesare de utilizare, depozitare, transportare, măsurile de securitate / Необходимые условия использования, хранения,**  
*транспортировки, меры безопасности:*

producerea, plasarea pe piață în condițiile respectării legislației în vigoare în Republica Moldova

**AVIZUL SANITAR este valabil pînă la / Санитарное заключение действительно до: 30.04.2026**

**DIRECTORUL AGENȚIEI NAȚIONALE PENTRU SĂNĂTATE PUBLICĂ**

Digitally signed by Jelamschi Nicolae

Date: 2023.04.14 11:46:18 EEST

Reason: MoldSign Signature

Location: Moldova

**Nicolae Jelamschi**

