MADINCHEM JSC
Add: Road 206, Pho Noi A Industrial Park, Nhu Quynh, Hung Yen, Viet Nam
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SAFETY DATA SHEET (MSDS)

MADIN WINDSHIELD FLUID

Logo

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

1.1 Product identifier

Product Name: Ethanol 5% Washer

Trade name: Madin Windshield Fluid

Manufacturer: Madin Chem JSC

Address: Pho Noi A Industrial Park, Nhu Quynh, Hung Yen, Viet Nam

HCM OFFICE: 11th floor, 728 730 Vo Van Kiet Street, Ward 01, District 5, HCMC, Vietnam VP

HN: 756 Nguyen Khoai St, Hoang Mai District, Ha Noi City, Vietnam

Phone: +84886634634

Purpose of Use: Cleans dust on glass, anti-glare, improves visibility, ensures safety when driving

1.2 Relevant identified uses of the mixture and uses advised against

1.2.1 Uses:

Industrial use: - Industrial use [SU23]: for clean dust and dirt from car windows.

1.2.2 Uses advised against: None identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Madin Chem JSC,

Address: Pho Noi A Industrial Park, Nhu Quynh, Hung Yen, Viet Nam

HCM OFFICE: 11th floor, 728 730 Vo Van Kiet Street, Ward 01, District 5, HCMC, Vietnam

VP HN: 756 Nguyen Khoai St, Hoang Mai District, Ha Noi City, Vietnam

Phone: +84886634634

Country: Vietnam

Website: madinchem.com

Person responsible for the Safety Data Sheet (with e-mail address): Tien Huynh, qc@madin.vn

1.4 Emergency telephone number

Please contact: Poison Information and Control Office in Ha Noi, Vietnam by phone +84 888718778

Helpdesk services work: Office Hours in GMT+7: 08:00AM-05:00PM

Other remarks (language in which assistance is provided): assistance is provided in English, Vietnamese.

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance

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

Skin irritation (Category 3) / Eye irritation (Category 2B)

Causes mild skin irritation. Causes eye irritation

2.2 Label elements

Hazard pictograms:



Signal word: WARNING

Hazard statements:

H316	Causes mild skin irritation.
H320	Causes eye irritation.

Precautionary statements:

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking
P233	Keep container tightly closed.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	IF SKIN IRRITATION OCCURS: Get medical advice/attention.

Supplemental Hazard Statements: None

Classification system:

NFPA ratings (scale 0 - 4) Health = 1 Fire = 0 Reactivity = 0

HMIS-ratings (scale 0 - 4) H Health = 1 Fire = 0 Reactivity = 0

2.3 Other hazards

None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Composition

Component	Cas No.	Chemical Formula	Concentration %	Classification
Ethanol	64-17-5	C_2H_5OH	< 10	Flam. Liq.2, H225 Eye Irrit. 2, H319
Mono Ethylene Glycol	107-21-1	$C_2H_6O_2$	< 1	STOT RE 2; H373 Acute Tox. 4; H302 STOT RE 2; H373
Water	7732-18-5	H2O	Top up to 100%	-

3.2. Mixtures

According to REACH Regulation (EC) No 1907/2006, the product is a multi-component mixture.

Hazardous ingredients in the mixture: none

SECTION 4. FIRST AID MEASURES

4.1 Description of necessary first aid measures

4.1.1. General information

The material can get through: the respiratory tract, in contact with skin, eyes, ingestion.

4.1.2. Inhalation: High concentrations of vapor can cause irritation of the nose and throat, as well as lung damage, liver dysfunction, and symptoms such as dizziness, nausea, headache, or indigestion. If breathing stops, administer artificial respiration and seek medical attention immediately.

4.1.3. Skin contact: Wash thoroughly with soap and water. If side effects persist, seek medical attention promptly. Launder contaminated clothing before use

4.1.4. Eye contact: Flush eyes with clean water for 15 minutes while lifting eyelids. Get prompt medical attention.

4.1.5. Ingestion: In case of accidental ingestion, rinse mouth with water. Drink a glass of milk (about 300ml). Do not induce vomiting. Seek medical advice immediately.

4.1.6. Individual protection measures recommended for first-aiders: Vomiting and then aspirating into the lungs can lead to chemical pneumonitis and pulmonary edema, a potentially fatal condition

4.2 Most important symptoms/effects, acute and delayed

Acute or delayed effects not known

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Measures that can only be taken by a doctor: eye treatment, gastric lavage

SECTION 5. FIREFIGHTING MEASURES

5.1 Suitable Extinguishing media

Suitable extinguishing media: Water Foam Carbon dioxide (CO2) Dry powder

Method: Wear self-contained positive pressure breathing apparatus and protective clothing. Use water mist to keep cool. Protect from venting containers.

Special firefighting procedures: Wear self-contained positive pressure breathing apparatus and approved protective clothing. DO NOT use forced water or direct foam as this may cause fire spread

Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given

5.2 Special hazards arising from the substance or mixture

No further relevant information available

5.3 Advice for firefighters

Special protective actions for fire-fighters: No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Special protective equipment for fire-fighters: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling

6.1.2. For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel"

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

6.3 Methods and material for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

See section 8 for personal protective equipment and section 13 for waste disposal

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from open flames, hot surfaces or sources of ignition.

Avoid contact with skin and eyes

Use in well-ventilated areas

7.2 Conditions for safe storage, including any incompatibilities

Store product at room temperature, limit exposure to sunlight.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.1 no other specific uses are stipulated

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

8.2.1 Appropriate engineering controls: Avoid exposure to fire and high temperatures, maintain proper ventilation.

8.2.2 Control of environmental exposure: Where relevant use is identified, use according to instructions. When handling liquid, minimize release to the environment.

8.2.3. Individual protection measures: In the case of Identified Related Uses and when handling the container, personal protective clothing is not required. When handling large volumes of liquid or cleaning up accidental spills, protective gloves and safety glasses are required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties.

Appearance	Blue homogeneous liquid
Odor	Light fragrance
Odor threshold	No data available
pH	6.0 – 8.5
Melting point/freezing point	- 2°C
Initial boiling point and boiling range:	95°C
Flash point:	95°C
Evaporation rate:	No data available
Flammability:	Low
Lower explosion limit:	No data available
Upper explosion limit:	No data available
Vapor pressure:	1.6 (ethanol), Air=1
Vapor density:	No data available
Relative Vapor Density (air = 1) :	No data available
Relative Density (water = 1):	0.98 - 1.10
Solubility (ies):	Dissolves infinitely in water
Partition coefficient: n-oktanol/water:	Not applicable
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	Not classified as explosive
Oxidizing properties:	None

9.2 Other information

None

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under regular conditions (see section 7, handling and storage)

10.2 Chemical stability

Stable under regular handling and storage conditions

10.3 Possibility of hazardous reactions

Any entry material will contaminate the product and can not be used for its intended purpose. Stabilizers need: not necessary

10.4 Conditions to avoid

Heat, sparks, open flame, open containers and poor ventilation. Extreme temperatures and sunlight

10.5 Incompatible materials

Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

10.6 Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials.. Decomposition products can include and are not limited to:. Aldehydes.. Alcohols.. Ethers

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Ethanol

Acute toxicity:

LD50 Oral - Rat - male and female -- 10,470 mg/kg (OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - 124,7 mg/l - vapor (OECD Test Guideline 403)

Dermal: No data available

Skin corrosion/irritation

Skin - Rabbit (ethanol)

Result: No skin irritation - 24 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit (ethanol)

Result: Causes serious eye irritation. (OECD Test Guideline 405)

Respiratory or skin sensitization

Maximization Test - Guinea pig (ethanol)

Result: negative (OECD Test Guideline 406)

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: Methanol

Germ cell mutagenicity

Test Type	Test system	Metabolic activation	Method	Result
Ames test	Salmonella typhimurium	with and without metabolic activation	OECD Test Guideline 471	negative
In vitro mammalian cell gene mutation test	Mouse lymphoma test	with and without metabolic activation	OECD Test Guideline 476	negative

Test Type: dominant lethal test

Species: Mouse

Application Route: Oral

Method: OECD Test Guideline 478

Result: Positive results were obtained in some in vivo tests.

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: No data available

11.2. Additional Information

None

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish: flow-through test LC50 - Pimephales promelas (fathead minnow) - 15.300 mg/l - 96 h (ethanol) (US-EPA)
Toxicity to daphnia and other aquatic invertebrates: static test LC50 - Ceriodaphnia dubia (water flea) - 5.012 mg/l – 48 h (ethanol)
Remarks: (ECHA)
Toxicity to algae:
IC5 - Scenedesmus quadricauda (Green algae) - 5.000 mg/l - 7 d Remarks: (Lit.)
static test ErC50 - Chlorella vulgaris (Fresh water algae) - 275 mg/l - 72 h (ethanol) (OECD Test Guideline 201)
Toxicity to bacteria: static test IC50 - activated sludge - > 1.000 mg/l - 3 h (ethanol) (OECD Test Guideline 209)
Toxicity to fish(Chronic toxicity): semi-static test NOEC - Danio rerio (zebra fish) - 250 mg/l - 120 h (ethanol)
Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity): semi-static test NOEC - Daphnia magna (Water flea) - 9,6 mg/l - 9 d (ethanol)
Remarks: (ECHA)

12.2 Persistence and degradability

Biodegradability: aerobic - Exposure time 15 d (ethanol) Result: ca.95 % - Readily biodegradable. (OECD Test Guideline 301E).

12.3 Bio accumulative potential

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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.

12.6 Other hazards effect

None

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Follow all federal, state and local regulations when disposing of this material.

SECTION 14. TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
UN Number	-	-	-
Proper Shipping Name	Not dangerous goods	Not dangerous goods	Not dangerous goods
Transport Hazard Class	-	-	-
Packing Group	-	-	-
Environmental Hazards	No	Marine Pollutant: No	No
Thông tin khác	No data available.		

SECTION 15. REGULATORY INFORMATION

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

EU legislation:

- 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 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;

- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH);

- Commission Regulation (EC) No 552/2009 of 22 June 2009 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards Annex XVII;

- REGULATION (EC) No 1272/2008 2006 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 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;

- Commission Regulation (EU) No 1357/2014 of 18 December 2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives;

- Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of majoraccident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC;

- Regulation (EU) No 98/2013 of the European Parliament and of the Council of 15 January 2013 on the marketing and use of explosives precursors;

- European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR);

- The International Rule for Transport of Dangerous Substances by Railway (RID);

- The International Maritime Dangerous Goods (IMDG); - International Convention for the Prevention of Pollution from Ships (MARPOL 73/78);

- The International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code) (the IBC Code).

National legislation (Lithuania):

- Applicable Law on Waste Disposal of the Republic of Lithuania;

- Applicable Law on Package and Package Waste Handling of the Republic of Lithuania;

- HN23 Maximum Allowable Concentrations of Hazardous Chemical Substances and Preparations in Working Environment. General Requirements; - HN36 Banned and Restricted Substances;

- Applicable Regulations for Workers ”Protection against the Impact of Chemical Factors” and Regulations for Workers “Protection against Carcinogenous and Mutagenous Impacts”;

- Applicable Procedure of Safety Data Sheet Requirements and Supply thereof to Professional Users;

- Applicable Rules on Labeling of Items (Products) to be Sold in Lithuania and Referring Price thereof;

- Applicable Rules on Waste Disposal;

17 of August 2004 Governments of the LR resolution No. 966 „On Prevention, Response and Investigation of dangerous objects and substances, mixtures or preparations classified as hazardous materials, and a list of criteria for designation of the Approval, as subsequently amended and supplemented. (Official Gazette, 2004, No. 130-4649; 2005 No. 131- 4731, 2008, No. 109-4159; 2009 No. 90-3855; 2010, No. 59-2894; 2012 No. 61-3078), as amended and supplemented.

Additional information about the relevant Community provisions on safety, health and the environment for the product.

The product is not subject to requirements according to the Government Resolution No. 966 of the Government of the Republic of Lithuania of 2004.08.07 „On Approval of the Description of the List and Attribution Criteria for List of Materials, Mixtures or Preparations of Hazardous Substances in the Hazardous Objects“ (Official Gazette, 2004, No. 130-4649) with all subsequent amendments and supplements).

Restrictions on the product according to Regulation (EU) No. 98/2013: not applicable.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture.

SECTION 16. OTHER INFORMATION

Date of last issue: 2026.04.16

Revision date: 2026.04.16

Revision No. 05

(i) A clear evidence of added, deleted or modified information:

The safety data sheet, as compared to its previous version, has been modified in accordance with Commission Regulation (EU) No. 2015/830 requirements**.**

(ii) List of abbreviations and acronyms used throughout the Safety Data Sheet:

ATE – acute toxicity estimate;

ADR – European Agreement on Dangerous Goods by Road;

CLP – Classification, Labeling and Packaging Regulation; Regulation (EC) No 1272/2008;

CAS – Chemical Abstracts Service;

DNEL – Derived No-Effect value;

EU – European Union;

ECHA – European Chemicals Agency;

EC No. – EINECS ir ELINCS numbers;

EINECS – European List of Existing Commercial Chemical Substances;

ELINCS – European Register of Substances;

Eye Irrit. 2 – eye irritating 2 category; HS – Hygiene Standard;

IBC Code – International Code for the Construction and Equipment of Ships Carrying Bulk Hazardous Substances;

IMDG – International Maritime Organisation;

ỊST – Company Standard; IMSBC – International Bulk Cargo Code;

IUCLID – International Database of General Information on Chemicals;

RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail;

IUPAC – International Union of Pure and Applied Chemistry;

UN – United Nations;

Kow – octanol-water partition coefficient;

LC50 – Lethal concentration of 50% of tested population;

LD50 – Lethal dose for 50% of tested population;

MARPOL 73/78 – International Convention for the Prevention of Pollution from Ships;

OJ – Official Journal;

Oxid. Solid 3 – oxidizing solids, 3 category;

PBT – Persistent, Bioaccumulative, Toxic;

PNEC(s) – Forecast(-s) no effect(-s) concentration(-s);

SDS – Safety Data Sheet;

vPvB – very Persistent, very Bio accumulative.

Explanation of the utilization sector (SU):

SU23 – Electricity, current, gas, water supply and sewage treatment.

(iii) Bibliography:

1) MSDS-Ethanol 10%-Merck
2) DIN EN 149 ‘’Respiratory protective devices. Filtering half masks to protect against particles. Requirements, testing, marking
3) DIN EN 166: Standard specifies functional requirements for various types of personal eye-protectors;
4) CSN EN 374: Protective gloves against dangerous chemicals and micro-organisms;
5) DIN EN 388 Protective gloves against mechanical risks;
6) CSN EN 402: Standa for respiratory protective devices. Lung governed demand self-contained opencircuit compressed air breathing apparatus with full face mask or mouthpiece assembly for escape;
7) DIN EN 403: Respiratory protective devices for self-rescue – Filtering devices with hood for escape from fire – Requirements, testing, marking;
8) CSN EN 407: Protective gloves against thermal risks (heat and/or fire);
9) DIN EN 14605: Protective clothing against liquid chemicals - Performance requirements for clothing with liquid- tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4]).

(iv) Applicable classification and procedures used to determine the classification of mixtures in accordance with Regulation (EC) No. 1272/2008 [CLP Regulation]: The product is a single substance. It is classified based on the classification of urea in the urea registration according to the REACH dossier.

(v) Relevant precautionary and hazard statements:

P102 – Keep out of reach of children;

H226: Flam. Liq.3

(vi) Other Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Madin and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.madinchem.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Madin Digital Signature