

Date of issue: 05/12/2016	Trade name:	Page: 1/6
Reviewed on:	<b>OPTIC CLEANER</b>	Version: 1.0

**1. Section 1. Identification of the substance/mixture and of the company/undertaking:**

- 1.1. Product identifier:  
Trade name: **OPTIC CLEANER**  
Product code: **28 ml - 1 35761 / 250 ml - 1 35760 / 5 l - 1 35762**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:  
Uses of the mixture: Car window cleaner.  
For professional and industrial use only.  
Uses advised against: Not known.
- 1.3. Details of the supplier of the safety data sheet:  
Identification of manufacturer/Supplier:  
RETECH, s.r.o.  
Vackova 1541/4  
150 00 Praha 5 - Stodůlky  
Telephone number/Fax: +420 327 596 128, +420 327 596 428  
E-mail: info@retech.cz
- 1.4. Emergency telephone number: RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic  
Telephone number: +420 327 596 128 (7.30-16.00 hour)  
Toxikologické informační středisko (Toxicology information centre),  
Na bojišti 1, 128 08 PRAHA 2, Czech Republic  
Telephone number: +420 224 919 293, +420 224 915 402 (24 hours a day)

**2. Section 2. Hazard identification:**

- 2.1. Classification of the substance or mixture:  
Classification according to Regulation (EC) No 1272/2008 [CLP]:  
This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008.
- 2.2. Label elements:  
Labelling according to Regulation (EC) No 1272/2008 [CLP]:  
Symbol: Not applicable.  
Signal Word: Not applicable.  
Hazard Statements: Not applicable.  
Precautionary Statements: Not applicable.
- 2.3. Other hazards:  
Results of PBT and vPvB assessment:  
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**3. Section 3. Composition/information on ingredients:**

- 3.2. Mixtures:  
Description of the mixture: Mixture of active ingredients

Hazardous ingredients:

CAS: 64-17-5	Ethanol	2 %
EINECS: 200-578-6	Flam. Liq. 2, H225	
Reg.nr.: 01-2119457610-43		

For full text of H-statements: see SECTION 16.

**4. Section 4. First aid measures:**

- 4.1. Description of first aid measures:  
General notes: When in doubt or if symptoms are observed, get medical advice.  
After inhalation: Move affected person to fresh air and keep at rest, avoid hypothermia.  
After skin contact: Remove all contaminated clothes and wash with plenty of water.  
Treat with protective cream.  
After eye contact: Rinse opened eye for several minutes under running water.  
Remove contact lenses, if present and easy to do. Continue rinsing.

## Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 05/12/2016	Trade name:	Page: 2/6
Reviewed on:	<b>OPTIC CLEANER</b>	Version: 1.0

<p>After swallowing:</p> <p>4.2. Most important symptoms and effects, both acute and delayed:</p> <p>4.3. Indication of any immediate medical attention and special treatment needed:</p>	<p>Get medical attention if any discomfort continues. Rinse out mouth and drink copious amounts of water. Get medical attention if any discomfort continues.</p> <p>Burning eyes, headaches, indigestion.</p> <p>No further relevant information available.</p>
<p><b>5. Section 5. Fire fighting measures:</b></p>	
<p>5.1. Extinguishing media:</p> <p>Suitable extinguishing agents:</p> <p>Unsuitable extinguishing agents:</p> <p>5.2. Special hazards arising from the substance or mixture:</p> <p>5.3. Advice for firefighters:</p>	<p>This product is nonflammable. Use fire fighting measures that suit the environment.</p> <p>Water jet.</p> <p>In case of fire, formation of carbon monoxide and carbon dioxide is possible.</p> <p>Wear protective clothing and self-contained breathing apparatus. Protective clothing must be chosen depending on extent of fire. Avoid release of contaminated extinguishing water to the environment.</p>
<p><b>6. Section 6. Accidental release measures:</b></p>	
<p>6.1. Personal precautions, protective equipment and emergency procedures:</p> <p>6.2. Environmental precautions:</p> <p>6.3. Methods and material for containment and cleaning up:</p> <p>6.4. Reference to other sections:</p>	<p>Wear protective equipment, see Section 8.</p> <p>Do not allow to enter sewage system, surface or ground water. May be harmful to water if released in large quantities.</p> <p>Collect large spills in appropriate containers, absorb remaining product with liquid-binding material (vapex, sand, earth, sawdust) and place in a suitable waste disposal container. Flush contaminated area with plenty of water. Dispose contaminated material as waste according to Section 13.</p> <p>See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.</p>
<p><b>7. Section 7. Handling and storage:</b></p>	
<p>7.1. Precautions for safe handling:</p> <p>Protective measures:</p> <p>Measures to prevent fire:</p> <p>7.2. Conditions for safe storage, including any incompatibilities:</p> <p>Requirements for storage rooms and vessels:</p> <p>Technical measures and storage conditions:</p> <p>Further information on storage conditions:</p> <p>7.3. Specific end use(s):</p>	<p>Wear protective equipment, see Section 8. Avoid contact with skin and eyes. Use only in well-ventilated areas.</p> <p>No further relevant information available.</p> <p>A first aid kit and eyewash station should be available in the warehouse. All electrical equipment should be explosion proof in the warehouse.</p> <p>Store in well sealed receptacles, in a well-ventilated place at temperatures 5 to 20 °C.</p> <p>Store out of reach of children. Do not smoke or handle near an open flame.</p> <p>Car window cleaner.</p>

Date of issue: 05/12/2016	Trade name:	Page: 3/6
Reviewed on:	<b>OPTIC CLEANER</b>	Version: 1.0

**8. Section 8. Exposure controls/personal protection:**

8.1. Control parameters:

Components with limit values that require monitoring at the workplace:

WEL (United Kingdom): EH40/2005

CAS	Substance	Long-term (8-hr TWA ref. period)		Short-term (15 minute ref. period)		Comments
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
64-17-5	Ethanol	1000	1920			

DNEL

64-17-5 Ethanol

Inhalation	Chronic effects systemic	950	mg/m <sup>3</sup>	Workers
	Chronic effects systemic	114	mg/m <sup>3</sup>	Consumers
Dermal	Chronic effects systemic	343	mg/kg Body weight/day	Workers
	Chronic effects systemic	206	mg/kg Body weight/day	Consumers
Oral	Chronic effects systemic	87	mg/kg Body weight/day	Consumers

PNEC

64-17-5 Ethanol

Freshwater	0.96	mg/l
Marine water	0.79	mg/l
Intermittent releases	2.75	mg/l
Sewage treatment plant	580	mg/l
Sediment (freshwater)	3.6	mg/kg
Sediment (marine water)	2.9	mg/kg
Soil	0.63	mg/kg

Additional information: The lists that were valid during the compilation were as basis.

8.2. Exposure controls:

Technical measures to prevent exposure:

Ensure good ventilation/exhaustion at the workplace.

General protective measures: The usual precautionary measures should be adhered to general rules for handling chemicals.

Do not eat, drink or smoke when using this product.

Wash hands before breaks and at the end of work.

Personal protection equipment:

Respiratory protection: Respiratory protection usually not required with adequate ventilation.

Eye protection: Safety glasses with side shields or wear face shield.

Hand protection: Chemical resistant protective gloves.

Skin protection: Protective clothing and shoes.

**9. Section 9. Physical and chemical properties:**

9.1. Information on basic physical and chemical properties:

Form:	Fluid.
Colour:	Clear, colourless.
Odour:	Fragrance-like.
Odour threshold:	Not determined.
Value pH at 20 °C:	Not determined.
Melting point/freezing point:	Not determined.
Initial boiling point/boiling range:	100 °C
Flash point:	This product is nonflammable.
Evaporation rate:	Not determined.
Flammability (solid, gas):	This product is nonflammable.
Explosive properties:	No explosive properties.
Explosive limits:	
– lower:	3.8 Vol % (ethanol)
– upper:	19.0 Vol % (ethanol)

## Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 05/12/2016	Trade name:	Page: 4/6
Reviewed on:	<b>OPTIC CLEANER</b>	Version: 1.0

Vapour pressure at 20°C:	Not determined.
Vapour density at 20 °C:	Not determined.
Density at 20°C:	1.005 g/cm <sup>3</sup>
Relative density:	Not determined.
Solubility in/miscibility:	Infinitely soluble in water.
Partition coefficient (n-octanol/water):	Not determined.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-ignition temperature:	Not determined.
Viscosity:	Not determined.
Oxidising properties:	No oxidising properties.
9.2. Other information:	No further relevant information available.

### 10. Section 10. Stability and reactivity:

10.1. Reactivity:	React with oxidising agents.
10.2. Chemical stability:	Stable under normal temperature conditions and recommended use.
10.3. Possibility of hazardous reactions:	None.
10.4. Conditions to avoid:	Avoid heating.
10.5. Incompatible materials:	Strong oxidising agents.
10.6. Hazardous decomposition products:	Exposition to high temperatures may produce hazardous decomposition products.

### 11. Section 11. Toxicological information:

#### 11.1. Information on toxicological effects:

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

Relevant hazards for substance:

64-17-5 Ethanol

Oral	LD50	rat	> 5000	mg/kg
Dermal	LD50	rabbit	> 3000	mg/kg
Inhalative	LC50/4h	rat	> 4951	mg/l

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

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

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: No further relevant information available.

### 12. Section 12. Ecological information:

#### 12.1. Toxicity:

Aquatic toxicity: The mixture has not been tested.

64-17-5 Ethanol

Fish:	LC50/96h		14.2	g/l
Invertebrates:	LC50/48h	Daphnia magna	> 100	mg/l
Algae:	EC50/72h		7.65	g/l/10 d

12.2. Persistence and degradability: The mixture is completely biodegradable.

12.3. Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil: The mixture is infinitely soluble in water.

## Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 05/12/2016	Trade name:	Page: 5/6
Reviewed on:	<b>OPTIC CLEANER</b>	Version: 1.0

12.5. Results of PBT and vPvB assessment:

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Other adverse effects:

The mixture shows no abnormalities in biological treatment under normal handling conditions.

**13. Section 13. Disposal considerations:**

13.1. Waste treatment methods:

Product disposal: Transfer to a suitable container and arrange for collection by specialised disposal company.

European Waste Catalogue:  
16 10 04 aqueous concentrates other than those mentioned in 16 10 03

Packagings disposal: Disposal must be made according to official regulations.

European Waste Catalogue:  
15 01 02 plastic packaging

Other disposal recommendations:

Disposal must be made according to official regulations.

The final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

**14. Section 14. Transport information:**

14.1. UN number:

ADR/RID, IMDG, IATA/ICAO This product does not require a classification for transport.

14.2. UN proper shipping name:

ADR/RID, IMDG, IATA/ICAO This product does not require a classification for transport.

14.3. Transport hazard class(es):

ADR/RID, IMDG, IATA/ICAO This product does not require a classification for transport.

14.4. Packing group:

ADR/RID, IMDG, IATA/ICAO This product does not require a classification for transport.

14.5. Environmental hazards:

14.6. Special precautions for user: No special measures required.

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

Not applicable.

**15. Section 15. Regulatory information:**

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

Used legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended (CLP)

Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended

Commission Decision 2000/532/EC establishing a list of wastes, as amended

Council Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment, as amended

Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values

Commission Directive 2009/161/EU establishing a third list of indicative occupational exposure limit values

Directive 2004/42/CE of the European Parliament and of the Council on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC, as amended

## Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 05/12/2016	Trade name:	Page: 6/6
Reviewed on:	<b>OPTIC CLEANER</b>	Version: 1.0

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

**16. Section 16. Other information:**

Relevant H-statements (Section 3):

H225 Highly flammable liquid and vapour.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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

DNEL: Derived No-Effect Level

EC50: Median effective concentration to 50% of a population

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

LC50: Median concentration lethal to 50 % of a test population

LD50: Median dose lethal to 50 % of a test population

PBT: Persistent, Bioaccumulative, Toxic

PNEC: Predicted No-Effect Concentration

Reg.nr.: Registration number

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

vPvB: Very Persistent, Very Bioaccumulative

WEL: Workplace exposure limits

Flam. Liq. 2: Flammable liquid, category 2

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

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.

**\*Compared to the last version the data has been changed.**