

WHEEL SPRAY SILVER

SECTION 1: SUBSTANCE/MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION

1.1. Product identification WHEEL SPRAY SILVER

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

Quick drying coat for covering various types of surfaces indoors and outdoors (spray).

1.3. Data of the safety data sheet supplier

Przedsiębiorstwo RANAL Sp. z o.o.
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42-240 Rudniki k. Częstochowy, PL
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Registration number: 000029202

Person responsible for the safety data sheet:
ranal@ranal.pl

1.4. Emergency telephone

+48 34 329-45-03 (8.00am - 03.00pm)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The mixture was classified as dangerous.

Classification according to EC Regulation 1272/2008:

Flam. gas. 1; H222 Extremely flammable aerosol.
H229 Pressurized container: may burst if heated.
Eye Irrit. 2, H319 Causes serious eye irritation.
STOT SE 3, H336 May cause drowsiness or dizziness.
Acute Tox.4, H332 Harmful if inhaled.
EUH 066 Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

According to the Regulation (EC) No 1272/2008.

Pictograms:



Warning word: **Danger!**

Contains:

Xylene, acetone.

Hazard statements:

H222 Extremely flammable aerosol.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH 066 Repeated exposure may cause skin dryness or cracking.
H229 Pressurized container: May burst if heated.

Precautionary statements:

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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.
P261 Avoid breathing dust/fumes/gas/mist/vapours/spray.
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.
P271 Use only outdoors or in a well-ventilated area.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C.
P501 Dispose of contents/container to an authorized entity.

WHEEL SPRAY SILVER

2.3. Other hazards

The mixture does not meet the criteria of PBT or vPvB assessment according to Annex XIII of the REACH regulation.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Component name Registration No	% weight	CAS No	EC No	Index No	Classification according to Regulation 1272/2008
Acetone 01-2119471330-49-XXXX	30-35%	67-64-1	200-662-2	606-001-00-8	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Butyl acetate 01-2119485493-29-XXXX	4-8%	123-86-4	204-658-1	607-025-00-1	Flam. Liq. 3, H226 STOT SE 3, H336
Diacetone alcohol 01-2119473975-21-XXXX	4-8%	123-42-2	204-626-7	603-016-00-1	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335,
m-Xylene ---	4-6%	108-38-3	203-576-3	601-022-00-9	Flam. Liq. 3, H226 Acute Tox 4, H332 Acute Tox 4, H312 Skin Irrit 2, H315
p-Xylene ---	2-3%	106-42-3	203-396-3	601-022-00-9	Flam. Liq. 3, H226 Acute Tox 4, H332 Acute Tox 4, H312 Skin Irrit 2, H315
Ethylbenzene ---	1-5%	100-41-4	202-849-4	601-023-00-4	Flam. Liq. 2, H225 Acute Tox 4, H332
o-Xylene ---	<2%	95-47-6	202-422-2	601-022-00-9	Flam. Liq. 3, H226 Acute Tox 4, H332 Acute Tox 4, H312 Skin Irrit 2, H315
** Petroleum gases liquefied Not subject to registration	35-45%	68476-85-7	270-704-2	649-202-00-6	** Flam. Gas. 1, H220 Press. Gas, H280 Note H, K, S, U

* Product of mass reaction of ethylbenzene, o-xylene, p-xylene and m-xylene: registration number: 01-2119555267-33-XXXX.

** The substance is not classified as carcinogenic or mutagenic (as in table 3.1 of the Annex VI to the Regulation 1272/2008/EC of December 16th 2008 -warning (note) K)-according to information given by the producer contains less than 0,1% weight of 1,3-Butadiene.
Full text of the phrases identifying the types of hazard and R phrases provided in section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Take the victim out of the contaminated area. Make the victim lie down. Ensure warm and quiet surrounding. Unloose tight clothes. Ensure open ventilation. If needed apply artificial respiration or administer oxygen. Ensure medical help.

Ingestion: Not applicable.

Contact with eyes: Rinse contaminated eyes with plenty of lukewarm water for about 15 minutes with wide open eyelids, (before remove contact lenses). Avoid strong water jet so as not to damage the cornea. If irritation appears and persists consult a doctor.

Contact with skin: Take off contaminated clothing and shoes. Rinse contaminated skin with plenty of water and soap. Continue rinsing for at least 10 minutes. If irritation appears and persists consult a doctor.

4.2. Most important symptoms both acute and delayed

In case of inhalation exposure to high concentrations of vapours/aerosols of the product, eye irritation may appear (redness of the conjunctiva, lacrimation, pain) as well as irritation of mucous membrane of respiratory tract (cough, burning in throat and nose). Vapours may cause drowsiness and dizziness. May cause skin irritation or dryness (see description in section 11).

4.3. Indications of any immediate medical attention and special treatment needed

Do not administer anything to an unconscious person and do not provoke vomiting.

Show this material safety data sheet or label/container to the medical personnel giving help. Personnel giving help in the area of unknown concentration of vapours should be equipped with a self-contained breathing apparatus.

Indications for a doctor: symptomatic treatment.

WHEEL SPRAY SILVER

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: CO₂, extinguishing powders, foam, dispersed water jets or water mist.
Unsuitable extinguishing media: strong water jets.

5.2. Special hazards arising from the substance or mixture

Extremely flammable product. Containers exposed to fire or high temperature may explode due to pressure increase inside. In case of fire carbon monoxides are generated. Avoid breathing burning gases as they may be hazardous.

5.3. Advice for firefighters

Closed containers exposed to fire or high temperature should be cooled with sprayed water from a safe distance (explosion hazard), and if possible they should be removed from endangered area. Removed containers should be completely cooled. Prevent leakage of the fire sewage into sewage system and water reservoirs. Fire sewage and all the fire remains should be disposed of according to current regulations.
The firefighters should be trained and equipped with self-contained breathing apparatus and full set of protective clothes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency measures

Announce the accident in the surroundings. Evacuate from endangered area all the people not taking part in the operation. Avoid contamination of eyes, skin and clothes. Do not breathe vapours. Caution: In case of substance release in a closed area ensure efficient ventilation/airing.
Remove all ignition sources – extinguish open flames, do not smoke, do not use any equipment or machines causing sparks, eliminate hot surfaces and other sources of heat.

6.2. Environmental precautions

In case of leakage of the product from aerosol cans, put leaking cans in emergency containers and let the pressure reduce. Prevent leakage into sewage system, water and soil.

6.3. Methods and materials for containment and cleaning up

In case of small amounts absorb leaked product with the use of a neutral non flammable binding agent (e.g. mica, diatomaceous earth, sand), collect into a closable and labeled waste container. In case of large amounts, embank the area, pump down collected liquid; cover small amounts of leaked liquid with non flammable binding agent (sand, diatomaceous earth, universal binding agent), collect into a closable container. Ensure sufficient ventilation.
Do not use water or water based cleaning agents.

6.4. Reference to other sections

Personal protection measures – see section 8 of the Material Safety Data Sheet.
Disposal considerations – see section 13 of the Material Safety Data Sheet.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling

When using the product apply general rules of hygiene and regulations concerning hygiene and safety at work with chemical substances (see section 15).
Ensure efficient ventilation of the room (general/local).
Avoid contact with skin and eyes. Do not eat, drink or smoke while using the product, except in designated places; wash hands before work breaks and at the end of work with the product. Keep away ignition sources – do not smoke. Take precaution measures against electrostatic discharge.

7.2. Conditions for safe storage, including any incompatibilities

Store only in original containers, in cool and dry place.
Store in a closed place and protect against the access of unauthorized persons.
Do not store together with food, drinks and feed.
Eliminate heat and ignition sources. Do not smoke. Protect the containers from direct sunrays. Keep away from strong oxidants.

7.3. Special end use(s)

No data available.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

Maximum permissible concentration of health hazardous substances in working environment:

Dimethylbenzene [CAS: 1330-20-7]	MPC -100 mg/m ³	MPIC - -
Acetone [CAS: 67-64-1]	MPC – 600 mg/m ³	MPIC – 1800 mg/m ³
Ethylbenzene [CAS :100-41-4]	MPC – 200 mg/m ³	MPIC – 400 mg/m ³
Dimethoxymethane [CAS:109-87-5]	MPC – 1000 mg/m ³	MPIC – 3500 mg/m ³

WHEEL SPRAY SILVER

Naphtha, hydrotreated heavy (petroleum) [CAS: 64742-48-9]	MPC – 300 mg/m ³ ;	MPIC – 900 mg/m ³
Aluminium (stabilized powder) [CAS:7429-90-5]	MPC - * 2.5 ** 1,2 mg//m ³ inhalable fraction /respirable fraction	
Propane [CAS: 74-98-6]	MPC - 1800 mg/m ³	
Butane [CAS: 106-97-8]	MPC - 1900 mg/m ³ ,	MPIC - 3000 mg/m ³

8.2. Exposure control

Appropriate technical protection:

In normal working conditions it is enough to ensure efficient ventilation.

Respect general rules of work with chemical substances.

While using the product do not eat, drink or smoke.

Keep away from food, drinks and feed.

Avoid contact with skin and eyes. Wash hands before work breaks and at the end of work.

Immediately remove contaminated clothes and wash skin with plenty of water.

Do not inhale gases, vapours and spray.

Eyes or face protection:

In industrial conditions use tight protective glasses (plastic frame resistant to organic solvents).

Hands and skin protection:

Protective gloves of material resistant to organic solvents (e.g. butyl rubber).

Material of gloves must be impermeable and resistant to the product. It should be chosen considering breakthrough time and rate and degradation. Choice of protective gloves does not depend only on material but also on other qualities which vary depending on the producer. The producer should supply penetration data of the gloves which should be respected. Use protective hand cream.

Protective clothes.

Protection of respiratory tract:

In case of accident or exceeded permissible levels of concentration of substances at a work place use certified respirator.

Minimal requirement is a half-mask with A1P2 filter or a mask covering the whole face with self-contained respiratory protection.

Thermal hazards:

Not applicable.

Air control at work places

PN-86/Z-04050.01 – Air cleanness protection. Equipment and sets for sampling. General provisions.

PN-89/Z-04008.07 – Air cleanness protection. Sampling. General provisions. Principles of sampling in a workplace and interpretation of results.

Environmental exposure control:

Consider precautionary measures to protect the area around storage containers. Prevent leakage to the sewage system, surface waters, underground waters and soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical appearance:	liquid in container
Colour:	silver
Odour:	characteristic for paint
Density (20 ⁰):	0.89-0.92 g/cm ³
Flash point:	not applicable: aerosol
Flammability (solid, gas):	extremely flammable mixture
Explosion limits at 20°C:	1.9%-9.0% vol.
Explosive properties:	Vapours of the substance may form explosive mixtures with air.
Oxidizing properties:	no data

9.2. Other information

No data.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data.

WHEEL SPRAY SILVER

10.2. Chemical stability

Product stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Oxidizing agents, strong acids.

10.4. Conditions to be avoided

Avoid high temperature – over 50°C, protect from direct sunrays, avoid open flames, electrostatic discharges and other ignition sources. Avoid formation of mixtures of vapours or spray with air.

10.5. Incompatible materials

Strong oxidants, acids, bases.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

General information:

Irritating. Causes irritation of eyes and skin. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Toxicological information on components:

Xylene

LD50: 4300 mg/kg (ingestion, rat)
LC50: 22100 mg/m³ (inhalation, rat, 4h)
LD50: >1700 mg/kg (skin, rabbit)

Acetone

LD50: 5800 mg/kg (ingestion, rat)
LC50: 7.6 mg/l (inhalation, rat, 4h)
LD50: 7400 mg/kg (skin, rat)

Ethylbenzene

LD50: 3500 mg/kg (ingestion, rat)
LC50: 17.2 mg/l (inhalation, rat, 4h)
LD50: 15500 mg/kg (skin, rabbit)

Butyl acetate

LD50: 14000 mg/kg (ingestion, rat)
LC50: 9660 mg/m³ (inhalation, rat, 4h)
LD50: >5000 mg/kg (ingestion, rat)

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity of components:

Acetone

Acute toxicity for freshwater invertebrates:	LC50 8800 mg/l / 48 h	(<i>Daphnia pulex</i>)
Acute toxicity for marine invertebrates:	LC50 2100 mg/l / 24 h	(<i>Artemia salina</i>)
Chronic toxicity for invertebrates:	NOEC 2212 mg/l / 28 days	(<i>Daphnia magna</i>)
Acute toxicity for freshwater algae:	LOEC 530 mg/l / 8 days	(<i>Microcystis aeruginosa</i>)
Acute toxicity for marine algae:	NOEC 430 mg/l / 96 h	(<i>Prorocentrum minimum</i>)
Acute toxicity for freshwater fish:	LC50 5540 mg/l / 96 h	(<i>Oncorhynchus mykiss</i>)
Acute toxicity for marine fish:	LC50 11000 mg/l / 96 h	(<i>Albumus albumus</i>)

Diacetone alcohol

Acute toxicity for fish:	LC50 >100 mg/l / 96 h	(<i>Oryzias latipes</i>)
Acute toxicity for aquatic invertebrates:	EC50 >1000 mg/l / 48 h	(<i>Daphnia magna</i>)
Long-term toxicity for aquatic invertebrates:	NOEC 100 mg/l / 21 days	(<i>Daphnia magna</i>)

Butyl acetate

Acute toxicity for fish:	LC50 141 mg/l
Acute toxicity for crustacea:	EC50 24 mg/l / 24 h

WHEEL SPRAY SILVER

Xylene		
Acute toxicity for fish:	LC50 3.77 mg/l / 96 h	
Acute toxicity for algae:	LC50 10-100 mg/l / 96 h	
Ethylbenzene		
Acute toxicity for fish:	LC50 94.44 mg/l / 96 h	(<i>Carassius auratus</i>)
	LC50 12.1mg/l / 96 h	(<i>Pimephales promelas</i>)
	LC50 4.2 mg/l / 96 h	(<i>Oncorhynchus mykiss</i>)
Acute toxicity for daphnia:	EC50 1.8-2.9 mg/l / 24 h	

12.2. Persistence and degradability

No data.

12.3. Bioaccumulative potential

Do not expect bioaccumulation.

12.4. Mobility in soil

No data.

12.5. Results of PBT and vPvB assesment

Does not meet PBT or vPvB criteria according to annex XIII.

12.6. Other hazardous effects:

Product is not classified as dangerous for the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Act according to local regulations.

Do not dispose the product into the sewage system. Prevent contamination of surface water and ground water. Consider reuse. Waste product should be recovered or disposed of with entities authorized to collect or dispose waste products according to current regulations.

Recovery / recycling / disposal should be performed according to current regulations. Caution: Only completely emptied containers can be recycled! Do not pierce or burn empty containers. Dispose of the product with authorized entities.

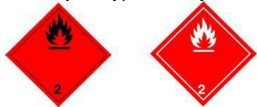
Steel can code: 15.01.05

Carton code: 20.01.01

Cap code: 20.01.39

SECTION 14: TRANSPORT INFORMATION

The product is subject to the regulations on the transport of dangerous goods contained in ADR (road transport), RID (rail transport), ADN (inland transport), IMDG (maritime transport), ICAO / IATA (air transport).



14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS, flammable

14.3. Transport hazard class (es)

2

Warning label No 2.1

14.4. Packaging group

-

14.5. Environmental hazards

No.

14.6. Special precautions for user

No.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 Convention and the IBC Code

No data.

WHEEL SPRAY SILVER

SECTION 15: REGULATORY INFORMATION

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

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH),
Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing European Chemicals Agency.
Regulation (EC) No 1272/2008 of December 16 2008 on classification, labeling and packaging of substances and mixtures , amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L335/1 of December 31 2008)
Regulation (EC) No 273/2004 of the European Parliament and of the Council of February 11 2004 on drug precursors.
Regulation (EC) No 111/2005 of December 22 2004 laying down rules of the monitoring of trade between the Community and third countries in drug precursors.
Regulation (EC) No 648/2004 of the European Parliament and of the Council of March 31 2004 on detergents.
Commission Regulation (EC) No 907/2006 of June 20 2006 amending regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents in order to adapt Annexes III and VII thereto.

15.2. Chemical safety assessment

Not performed.

SECTION 16: OTHER INFORMATION

Full text of hazard statements mentioned in sections 2-15 of the sheet:

H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
EUH066	Repeated exposure may cause skin dryness or cracking.

Explanations of the abbreviations and acronyms used in the Material Safety Data Sheet

MPC	maximum permissible concentration of health hazardous substances in the work place.
MPIC	maximum permissible instantaneous concentration.
MPCC	maximum permissible ceiling concentration.
vPvB	(Substance) Very persistent and very bioaccumulative.
PBT	(Substance) Persistent, bioaccumulative and toxic.
PNEC	Predicted no effect concentration.
DN(M)EL	Derived no effect level of concentration.
LD50	Lethal dose, a dose required to kill half the members of a tested population.
LC50	Lethal concentration, concentration required to kill half the members of a tested population.
ECX	Concentration causing an effect of X % reduction of growth or growth rate.
LOEC	Lowest observed effect concentration.
NOEL	No observable adverse effect level.
RID	Regulation for international rail transport of dangerous goods.
ADR	European Agreement Concerning International Road Transport of Dangerous Goods.
IMDG	International Marine Code of Dangerous Goods.
IATA	International Air Transport Association.
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials.

Trainings:

Before using the product the user should get acquainted with the rules of hygiene and safety regarding work with chemical substances, and particularly suitable on-the-job-training.
The drivers should be suitably trained and certified according to ADR Regulations.

Classification of mixtures and assessment method according to the Regulation (EC) No 1272/2008 [CLP]

Classification according to 1272/2008 [CLP]:

Physical hazard: Flash point (°C)

Health hazard: Calculation method.

Environmental hazard: Calculation method.

Information for the reader: The user is responsible for taking all necessary actions aiming at meeting the requirements of national regulations. Information included in this sheet provides description of safety requirements while using the product. The user is fully responsible for determining usability of the product for particular purpose. Data included in this sheet does not constitute safety assessment for the user's workplace. Material safety data sheet cannot be treated as guarantee of product characteristic.

WHEEL SPRAY SILVER

Material safety data sheet was elaborated on the basis of material safety data sheets of components delivered by the manufacturer and internet databases, as well as provision in force concerning dangerous substances and chemical mixtures.

Changes in the sheet compared to the previous version:

The following sections have been modified 1.3, 2.2, 3.2, 6.1, 9.1, 11.1, 12.1, 14.3, 14.6, 14.7, 16.0.

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