

ACRYL ENAMEL SPRAY

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

1.1. Product identification:

Product name: ACRYL ENAMEL - SPRAY

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

Quick drying coat for painting various types of surface both inside and outside (spray).

1.3. Data of the safety data sheet supplier

Przedsiębiorstwo RANAL Sp. z o.o.

Ul. Łódzka 3

42-240 Rudniki, PL

Phone: +48 34 329 45 03

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Register number: 000029202

Person responsible for the safety data sheet:

ranal@ranal.pl

1.4. Emergency telephone

+48 34 329-45-03 (from 7:30am to 03:30pm)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The mixture was classified as dangerous.

Classification according to Regulation 1272/2008/EC:

Flam. gas. 1; H222- Extremely flammable aerosol.

H229 - Pressurized container: may burst if heated Eye Irrit.2 H319- Causes serious eye irritation.

STOT SE3, H335 - May cause respiratory irritation.

STOT SE 3, H336 - May cause drowsiness or dizziness.

EUH 066 - Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

According to Regulation 1272/2008/EC

Pictograms indicating hazard types:



Warning word: **Danger.**

Contains: xylene, acetone.

Risk index :

H222 Extremely flammable aerosol.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H335 May cause respiratory irritation.

EUH066 Repeated exposure may cause skin dryness or cracking.

H229 Pressurized container: may burst if heated.

Safety index

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 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.

ACRYL ENAMEL SPRAY

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

P501 Dispose of contents/container to an authorized recipient of wastes.

2.3. Other hazards

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

Other hazards not reflected in the classification:

Unknown.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| Component name Registration number | % by 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 SE3, H335, |
| m-xylene * | 4-6% | 108-38-3 | 203-576-3 | 601-022-00-9 | Flam.Liq.3 , H226 AcuteTox 4,H332 AcuteTox 4,H312 Skin Irrit 2,H315 |
| p-xylene * | 2-3% | 106-42-3 | 203-396-3 | 601-022-00-9 | Flam.Liq.3 , H226 AcuteTox 4,H332 AcuteTox 4,H312 Skin Irrit 2,H315 |
| ethylbenzene * | 1-5% | 100-41-4 | 202-849-4 | 601-023-00-4 | Flam.Liq.2 , H225 AcuteTox 4,H332 |
| o-xylene * | <2% | 95-47-6 | 202-422-2 | 601-022-00-9 | Flam.Liq.3 , H226 AcuteTox 4,H332 AcuteTox 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 reaction of mass of ethylbenzene , o-xylene ,p-xylene and m-xylene :
registration number: 01-2119555267-33-XXXX

**Substance is not classified as carcinogenic or mutagenic (see table 3.1 of the annex VI to Parliament and Council Regulation (EC) no 1272/2008 of December 16 2008-attention (note) K)-according to the manufacturer's information contains less than 0,1% by weight of buta-1,3-diene.

Full text of H phrases provided in section 16.

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures**

Inhalation: Take the victim outside of the contaminated area. Lay the victim down. Ensure warmth and quiet surrounding . Unfasten tight clothing. Ensure open ventilation. If necessary perform artificial respiration or administer oxygen. Ensure medical help.

Ingestion: not applicable.

Contact with eyes: Rinse contaminated eyes with plenty of warm water for 15 minutes, with eyelids wide open (before remove contact lenses). Do not use too strong jet of water so as not to damage the cornea. In case of persistent irritation symptoms ensure medical help.

Contact with skin: Take off contaminated clothing and shoes. Rinse contaminated skin thoroughly with plenty of water and soap. Continue rinsing for at least 10 minutes. In case of persistent irritation symptoms ensure medical help.

ACRYL ENAMEL SPRAY

4.2. Most important symptoms both acute and delayed

In case of inhalation exposure to high concentrations of vapours/aerosols of the preparation eye irritation may appear (redness of conjunctiva, lacrimation, and eye pain) as well as irritation of mucous membrane of airways (cough, stinging sensation in throat and nose). Vapours may cause drowsiness and dizziness. May cause irritation, dryness of skin (see details in section 11)

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

Do not administer anything per os to an unconscious victim and do not induce vomiting.

Show medical personnel giving aid material safety data sheet or label/package of the product. People giving aid in the area of unknown vapours concentration should be equipped with self-contained breathing apparatus.

Tips for a doctor: symptomatic treatment.

SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing media**

Suitable extinguishing media: CO₂, powders, foam, water spray or water mist.

Unsuitable extinguishing media: strong jets of water.

5.2. Special hazards arising from the substance or mixture

Extremely flammable product. Containers exposed to fire or high temperature may burst as a result of increase of pressure inside them. During the fire carbon monoxides are generated. Avoid breathing combustion products as they may be hazardous for health.

5.3. Advice for firefighters

Cool closed containers exposed to fire or high temperature with water spray from safe distance (danger of explosion), and if possible, remove them carefully from endangered area. Continue cooling after having removed the containers until they get completely cooled.

Avoid leakage of the fire waste into sewage system and water reservoirs. Fire waste and residues should be disposed of according to provisions in force.

People participating in extinguishing the fire should be trained and equipped with self-contained breathing apparatus and full set of protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency measures**

Inform the environment about the accident. Remove all the people not taking part in the rescue actions from the endangered area.

Avoid contamination of eyes, skin and clothes. Do not inhale vapours.

Attention: In case of release in closed room ensure efficient ventilation/airing.

Remove all ignition sources – extinguish open flame, do not smoke, do not use sparking tools and machines, eliminate hot surfaces and other heat sources.

6.2. Environmental precautions

In case of leakage of product from aerosol cans, place leaking containers in emergency containers and wait as the pressure in containers reduces.

Avoid release of the product into drains, waters and soil.

6.3. Methods and materials for containment and cleaning up

Absorb small quantities of released product with neutral non-flammable binding agent (e.g. earth, sand, diatomaceous earth), collect into closed, labelled waste container.

In case of large release, embank the area, pump out collected liquid; cover small amounts of liquid with non flammable binding material (sand, diatomite, universal binding material), collect to a closed container. Ensure sufficient ventilation. Do not wash with water or other water based cleaning agents.

6.4. Reference to other sections

Information about personal protection measures– see section 8. Disposal considerations – see section 13.

ACRYL ENAMEL SPRAY

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES**7.1. Precautions for safe handling**

While working with the product apply general rules of hygiene and occupational safety and hygiene provisions for working with chemicals (see section 15).

Ensure efficient ventilation of the room (general/local exhaust ventilation).

Avoid contact with skin and eyes. Do not eat, drink or smoke while working with the product except in designated areas; wash hands before breaks and after having finished work. 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 packaging, in cool and dry place.

Store locked up, protect from unauthorized persons.

Do not store with food, drinks and feed.

Eliminate heat and ignition sources. Do not smoke. Protect containers from sunrays. Store away from strong oxidants.

7.3. Special end use(s)

No data available.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES**8.1. Control parametres****Maximum permissible concentration in a workplace:**

| | |
|--|--------------------------------|
| n-butyl acetate [CAS :123-86-4] | |
| MPC – 200 mg/m ³ | MPICC – 950 mg/m ³ |
| Xylene [CAS: 1330-20-7] | |
| MPC -100 mg/m ³ | MPICC- - |
| Acetone [CAS: 67-64-1] | |
| MPC - 600 mg/m ³ | MPICC - 1800 mg/m ³ |
| Diacetone alcohol [CAS: 123-42-2] | |
| MPC - 240 mg/m ³ | MPICC- - |
| Ethylbenzene [CAS :100-41-4] | |
| MPC – 200 mg/m ³ | MPICC – 400 mg/m ³ |
| Propane [CAS: 74-98-6] | |
| MPC - 1800 mg/m ³ | |
| Butane [CAS: 106-97-8] | |
| MPC – 1900 mg/m ³ | MPICC - 3000 mg/m ³ |

8.2. Exposure control**Suitable technical protection:**

In normal working conditions it is sufficient to ensure efficient ventilation of the room. Observe general safety rules for working with chemicals. While using the product do not eat, drink or smoke. Store away from food, drinks and feed.

Avoid contact with skin and eyes. Wash hands before each break and after having finished work. Remove immediately contaminated clothing and rinse skin with plenty of water.

Do not inhale gases, vapours and spray.

Eye or face protection:

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

Hand and skin protection:

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

Glove material has to be impermeable and resistant to the product. The choice of material depends on penetration time, rate of diffusion and degradation. Moreover the choice of suitable gloves does not depend only on material but also on other quality characteristics and varies depending on manufacturer. Exact penetration time shall be given by the manufacturer and shall be observed. Use protective hand creme.

Working clothes.

Respiratory protection:

In case of accident or exceeded concentration limits in a workplace use certified respirator. Minimal requirement is a half mask with filter A1P2 or self-contained full mask.

ACRYL ENAMEL SPRAY

Thermal hazard: Not applicable.

Air monitoring in a workplace

PN-86/Z-04050.01 – Air cleanness protection. Sampling devices and kits. 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 for protection of the area around storage containers. Avoid release into soil, sewers and watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Appearance – liquid in aerosol container

colour - white

odour – characteristic for paint

density (200) – 0.89-0.92 g/cm³

flash point - not applicable: aerosol

flammability (solid, gas): extremely flammable mixture

explosion limits 20°C – 1.9% -9.0% vol.

Explosion properties: Vapours of the mixture together with air may form explosive mixtures.

Oxidizing properties: no data available

9.2. Other information

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity – no data available.

10.2. Chemical stability – Product stabile 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 sunlight, avoid open flames, electrostatic discharges and other ignition sources. Avoid mixing 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 eye irritation . Repeated exposure may cause skin dryness or cracking. Vaours may cause dizziness and drowsiness.

Toxicological information for 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)

ACRYL ENAMEL SPRAY

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 (skin, rabbit)

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Component toxicity:

Acetone

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

Diacetone alcohol

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

Butyl acetate

| | |
|--------------------------------------|-------------|
| Acute toxicity for fish: LC50 | 141 mg/l |
| Acute toxicity for crustaceans: EC50 | 24 mg/l/24h |

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/96h (Carassius auratus) |
| LC50 | 12.1mg/l/96h (Pimephales promelas) |
| LC50 | 4.2 mg/l/96h (Oncorhynchus mykiss) |
| Acute toxicity for daphnia:EC50 | 1.8-2.9 mg/l/24h |

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

Bioaccumulation should not be expected.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

Does not meet the criteria of PBT or vPvB according to Annex XIII.

12.6. Other hazardous effects

Product was not classified as environmentally hazardous.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Do not dispose the product into the sewage system. Prevent contamination of surface and ground water. Consider possibility of re-use. Waste product shall be subject to recycling or shall be disposed of by authorized companies according to regulations in force.

ACRYL ENAMEL SPRAY

Recycling / disposal of waste containers shall be performed in accordance with regulations in force. Warning: Only completely empty containers can be recycled! Do not pierce or burn empty containers. Use the services of companies with appropriate permissions.

SECTION 14: TRANSPORT INFORMATION

Product is subject to regulations concerning transport of dangerous goods included in ADR (road transport), RID (rail transport), ADN (inland waterway transport), IMDG (marine transport), ICAO/IATA (air transport).



| | |
|---|--------------------------|
| 14.1. UN number | UN 1950 |
| 14.2. UN proper shipping name | AEROSOLS, flammable 2 |
| 14.3. Transport hazard class(es) | No 2.1 |
| Warning label | - |
| 14.4. Packaging group | No |
| 14.5. Environmental hazards | No |
| 14.6. Special precautions for user: | No data available |
| 14 14.7. Transport in bulk according to Annex II of MARPOL 73/78 Convention and the IBC Code | |

SECTION 15: REGULATORY INFORMATION

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

Regulation of the European Parliament and of the Council (EC) No 453/2010 of May 20 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council of December 18 2006 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 of the European Parliament and of the Council (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 EU L 353 of December 31 2008)
Regulation (EC) No 273/2004 of the European Parliament and of the Council of 11 February 2004 on drug precursors.
Council Regulation (EC) No 111/2005 of December 2004 laying down rules for 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 31 March 2004 on detergents.
COMMISSION REGULATION (EC) No 907/2006 of 20 June 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

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.
EUH 066 Repeated exposure may cause skin dryness or cracking.

ACRYL ENAMEL SPRAY

Explanation of abbreviations and acronyms applied in the material safety data sheet

MPC Maximum permissible concentration

NDSch Maximum permissible momentaneous concentration

NDSP The highest permitted 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

LD50 a dose which causes death of 50% of examined animals

LC50 concentration which causes death of 50 % examined animals

ECX concentration which causes X % reduction of growth or growth rate

LOEC lowest observed effect concentration

NOEL no observable adverse effect level

RID Regulation for international carriage of dangerous goods by rail

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG International Maritime Dangerous Goods Code

IATA International Air Transport Association

UVCB chemical substances of unknown or variable composition, Complex Reaction Products and Biological Materials

Classification of mixtures and assessment method according to Regulation EC

no 1272/2008 [CLP]

Classification according to 1272/2008 [CLP]: Physical hazards: Flashpoint (°C) Health hazards: Calculation Method.

Environmental hazards : 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 provide 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.

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: 1.3, 9.1, 11.1, 12.1 and general update.

Number of MSDS: 070P7L2018V3