

Safety Data Sheet (SDS)

according to 1907/2006/EC, Article 31

Printing Date: 15.01.2015

Version Number 4

Revision date: 15/01/2022

Section 1 –Identification: Product identifier and chemical identity

•1.1 Product identifier

•Trade name: **SPRAY PAINT (normal colors and fluorescent colors)**

•1.2 Relevant identified uses of the substance or mixture and uses advised against application of the substance / the mixture **Lacquer**

•1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

ARISTO INDUSTRIES CORPORATION LIMITED

XIAOXIANG INDUSTRIAL AREA, KUISHU STR., WANJIANG, DONGGUAN, GUANGDONG, CHINA

Tele-Nr. (+86)- 755-22214189

Fax-Nr. (+86)- 755-22214186

•1.4 Emergency telephone number: +86-755-22214189

Section 2 –Hazard identification

•2.1 Classification of the substance or mixture

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



GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressured container: May burst if heated.



GHS07

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

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



Xn; Harmful

R20/21: Harmful by inhalation and in contact with skin.



Xi; Irritant

R38: Irritating to skin.



F+; Extremely flammable

R12: Extremely flammable.

•Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

•Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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·2.2 Label elements

·Labeling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP regulation.

·Hazard pictograms



GHS02

GHS07

·Signal word Danger

·Hazard-determining components of labeling:

Methyl ether

·Hazard statements

H222-H229 Extremely flammable aerosol. Pressured container: May burst if heated.

H312+H332 Harmful in contact with skin or if inhaled.

H315 Causes skin irritation.

·Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

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.

P260 Do not breathe spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves.

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

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

·Additional information:

Buildup of explosive mixtures possible without sufficient ventilation.

·2.3 Other hazards

·Results of PBT and vPvB assessment

·PBT: Not applicable.

·vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

INGREDIENTS	CAS NO INDEX	ENIECS	WT(%)
Ethyl acetate	141-78-6	205-500-4	15~20%
Butyl acetate	123-86-4	204-658-1	15~20%
Dimethyl ether	115-10-6	204-065-8	30~40%
Acetone	67-64-1	200-662-2	1~5%
2-Butoxy ethanol	111-76-2	203-905-0	1~3%
Acrylic resin	9003-01-4	202-415-4	15~18%
Organic pigment	N/A	N/A	7~10%

· Additional information:

The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1% (Note P Annex 1 67/548 EU), so the classification as carcinogen need not to apply.

For the wording of the listed risk phrases refer to section 16.

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Section 4 – First aid measures

•4.1 Description of first aid measures

• General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

• **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

• **After eye contact:** Rinse opened eye for several minutes under running water.

• **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

• **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

• 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

Section 5 - Fire-fighting measures

• 5.1 Extinguishing media

• Suitable extinguishing agents:

Water spray(large fires only), foam, dry chemical or carbon dioxide.

• **For safety reasons unsuitable extinguishing agents:** Water with full jet

• **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

• 5.3 Advice for firefighters -

• **Protective equipment:** Mouth respiratory protective device.

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:

Inform respective authorities in case of seepage into water course or sewage system.

• 6.3 Methods and material for containment and cleaning up:

Do not flush with water or aqueous cleansing agents

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

• 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 disposal information.

Section 7 - Handling and Storages

• 7.1 Precautions for safe handling

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Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· **Information about fire - and explosion protection:**

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 receptacles:**

Store in a cool location.

Observe official regulations on storing packaging with pressurized containers.

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

· **Further information about storage conditions:**

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· **Storage class:** 2B

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

Section 8 - Exposure controls and personal protection

· **8.1 Control parameters**

· Ingredients with limit values that require monitoring at the workplace:	
Ethyl acetate	PC-TWA: 200 mg/m ³ PC-STEL: 300 mg/m ³
Butyl acetate	PC-TWA: 200 mg/m ³ PC-STEL: 300 mg/m ³
Acetone	PC-TWA: 300 mg/m ³ PC-STEL: 450 mg/m ³
2-Butoxy ethanol	PC-TWA: N/A PC-STEL: N/A
Dimethyl ether	PC-TWA: N/A PC-STEL: N/A

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Otherwise, filter class A / P2 or self contained.

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· Protection of hands:

Protective gloves

Solvent resistant gloves

In case of contact with spray dust protective gloves made of butyl should be used (min. 0.4 mm thick), e.g.

KCL Camatril, article no. 898 or similar products

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

Butyl rubber gloves with a thickness of 0.4 mm are resistant to:

Acetone: 480 min

Butyl acetate: 60 min

Ethyl acetate: 170 min

Xylene: 42 min

· **Eye protection:** Safety glasses

Section 9 - Physical and chemical properties

Appearance:	Viscous liquid
Odour:	Solvent
Odour threshold:	Not determined
pH:	Not determined
Self-igniting	Product is not self-igniting.
Melting point/freezing point:	<-20°C
Boiling point:	>60°C
Flash point:	Not determined
Evaporation rate:	Not determined
Flammability (solid, gas):	Flammable
Upper/lower flammability or explosive limits:	Not determined
Vapor pressure:	Not determined
Vapor density:	Not determined
Relative density:	0.93~0.95g/cm ³
Vapor density	Not determined
Solubility:	Not water soluble. Re-dispersible in aromatic solvents or ketones.
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	Not determined
Oxidising properties:	Not determined
Partition coefficient (n-octanol/water)	Not determined

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Section 10 - Stability and reactivity

- **10.1 Reactivity:** Stable under recommended storage and handling conditions.
- **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:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

Section 11 - Toxicological information

• 11.1 Information on toxicological effects

• Acute toxicity:

• LC50 values relevant for classification:		
INGREDIENTS		
115-10-6 Methyl ether	308000mg/m3(Rat)	Inhalation
141-78-6 Ethyl acetate	505760mg/m3(Rat)	Inhalation
123-86-4 Butyl acetate	10768 mg/kg(Rat)	Oral
67-64-1 Acetone	5800mg/kg(Rat)	Oral

• Primary irritant effect:

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

• Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful, Irritant, Vapors have narcotic effect.

Section 12 - Ecological information

• 12.1 Toxicity

• Aquatic toxicity:	
141-78-6 Ethyl acetate	
EC50/96h	220mg/L(Fathead minnow)
LC50/96h	230mg/L(Fathead minnow)

• 12.2 Persistence and degradability:

• 141-78-6 Ethyl acetate

• Biodegradable

Aerobic biodegradation (h): 24 ~ 168

Anaerobic biodegradability (h): 24 ~ 6723

• Non-biodegradable

Water photo-oxidation half-life (h): 24090 ~ 9.60 × 10⁵

Light air oxidation half-life (h): 35.3 ~ 353

A hydrolysis half-life (h): 1.77 × 10⁴

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· **12.3 Bioaccumulative potential:** No further relevant information available.

· **12.4 Mobility in soil:** Very slow

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

Section 13 - Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue	
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
15 01 04	metallic packaging
15 01 11*	metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

Section 14 - Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN1950
· 14.2 UN proper shipping name · ADR · IMDG	UN1950 AEROSOLS AEROSOLS
· IATA	AEROSOLS, flammable
 · 14.3 Transport hazard class(es) · ADR	
· Class · Lable	2 5F Gases. 2.1
 · IMDG, IATA	
· Class · Lable	2.1 2.1
· 14.4 Packing group · ADR, IMDG, IATA	Void

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• 14.5 Environmental hazards: • Marine pollutant:	No
• 14.6 Special precautions for user • Danger code (Kemler): - • EMS Number:	Warning: Gases. - F-D,S-U
• 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
• Transport/Additional information: • ADR • Limited quantities (LQ) • Excepted quantities (EQ) • Transport category • Tunnel restriction code • IMDG • Limited quantities (LQ) • Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity 2 D 1L Code: E0 Not permitted as Excepted Quantity
• UN "Model Regulation":	UN1950, AEROSOLS, 2.1

Section 15 - Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture .
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Section 16 - Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Relevant phrases

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapor.
- H226 Flammable liquid and vapor.
- H250 Catches fire spontaneously if exposed to air.
- H261 In contact with water releases flammable gases.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H332 Harmful if inhaled.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.
- R10 Flammable.
- R11 Highly flammable.
- R12 Extremely flammable.
- R15 Contact with water liberates extremely flammable gases.
- R17 Spontaneously flammable in air.
- R20 Harmful by inhalation.

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R20/21 Harmful by inhalation and in contact with skin.

R38 Irritating to skin.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R65 Harmful: may cause lung damage if swallowed

• **Contact:** Dipl.-Chem. G. Heller oder Dipl.-Ing. U. Voetter

• **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport 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 Harmonized 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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas: Gases under pressure: Compressed gas

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Pyr. Sol. 1: Pyrophoric Solids, Hazard Category 1

Water-react. 2: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

GB