

Page 1/10

Printing date 25.09.2024

Version number 3.01 (replaces version 3.00)

Revision: 25.09.2024

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

## 1.1 Product identifier

## <sup>·</sup> Trade name: 4226A

· Other Means of Identification: Clear Insulating Varnish

### <sup>•</sup> Related Part Number:

- 4226A-Liquid, 4226A-55ML, 4226A-1L, 4226A-3.78L, 4226A-18.9L, 4226A-Drum
- · UFI: 5DS0-M0NW-700N-82XR

#### • 1.2 Relevant identified uses of the substance or mixture and uses advised against • Application of the substance / the mixture

High voltage protective coating for electronic and electrical devices.

· Uses advised against Not available

# 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:

MG Chemicals Ltd. (Head Office) 1210 Corporate Drive Burlington, Ontario L7L 5R6 CANADA +(1) 905-331-1396 info@mgchemicals.com

MG Chemicals Heame House, 23 Bliston Street Sedgely Dudley DY3 1JA. United Kingdom +(44) 1663 362888

MG Chemicalst Ltd. Level 2, Vision Exchange, Building Territorials Street, Zone 1, Central Business, District, Birkirkara CBD 1070, MALTA

## · Further information obtainable from: sds@mgchemicals.com

## <sup>.</sup> 1.4 Emergency telephone number:

Verisk 3E (Access code: 335388) +(44) 20 3514787 +(1) 760 476 3961 UK Toll free: +(0) 800 680 0425

Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

## **SECTION 2: Hazards identification**

## • 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008



Flam. Liq. 3 H226 Flammable liquid and vapour.

# Safety data sheet

according to UK REACH

Printing date 25.09.2024

Version number 3.01 (replaces version 3.00)

Revision: 25.09.2024

Trade name: 4226A

(Contd. of page 1)

GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

## <sup>•</sup> 2.2 Label elements

## <sup>•</sup> Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms



#### · Signal word Warning

## · Hazard-determining components of labelling:

n-butyl acetate

heptan-2-one

## Hazard statements

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

## Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing mist/vapors/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

## • Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

## <sup>.</sup> 2.3 Other hazards

## <sup>·</sup> Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

• Determination of endocrine-disrupting properties Endocrine Disruptor substance ≥ 0.1% = none

## **SECTION 3: Composition/information on ingredients**

## <sup>·</sup> 3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

<sup>·</sup> Dangerous components:				
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1	n-butyl acetate Flam. Liq. 3, H226; () STOT SE 3, H336, EUH066	48.0%		
CAS: 110-43-0 EINECS: 203-767-1 Index number: 606-024-00-3	heptan-2-one Flam. Liq. 3, H226; () Acute Tox. 4, H302; Acute Tox. 4, H332	4.0%		
CAS: 136-52-7 EINECS: 205-250-6	cobalt(II) 2-ethylhexanoate Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1B, H350; Repr. 1B, H360;    Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥0.025-<0.1%		
		(Contd. on page 3)		

- GB —

Printing date 25.09.2024

Version number 3.01 (replaces version 3.00)

Page 3/10

Trade name: 4226A

Revision: 25.09.2024

(Contd. of page 2)

• Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

## · 4.1 Description of first aid measures

After inhalation:

Remove person to fresh air and keep comfortable for breathing.

If feeling unwell: Call a POISON CENTRE or doctor.

• After skin contact:

Take off immediately all contaminated clothing.

- Wash with plenty of soap and water.
- After eye contact: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If symptoms persist consult doctor.

- After swallowing: Rinse mouth.
   Do NOT induce vomiting.
   If symptoms persist consult doctor.
- **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: Firefighting measures**

## • 5.1 Extinguishing media

<sup>•</sup> Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: Water with full jet

## <sup>•</sup> 5.2 Special hazards arising from the substance or mixture

Vapors are heavier than air. Vapors may travel to sources of ignition near the ground. They can cause flash fire or ignite explosively.

Prevent fire-fighting wash from entering waterway or sewer system.

• Hazardous combustion products: Carbon Oxides (COx) other toxic fumes

· 5.3 Advice for firefighters

• Protective equipment: Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

## **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Remove or keep away all sources of extreme heat or open flames. Avoid breathing mist, spray, or vapors.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

## <sup>•</sup> 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Collect liquid in a sealable, chemical-resistant container.

Wash residue with a paper towel and place dirty towels in container. Use soap and water to remove the last traces of residue.

Printing date 25.09.2024

Version number 3.01 (replaces version 3.00)

Revision: 25.09.2024

Page 4/10

#### Trade name: 4226A

<sup>•</sup> 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 storage**

### <sup>•</sup> 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Wear protective gloves and eye protection. Wash hands and exposed skin thoroughly after handling. Take off contaminated clothing and wash it before reuse. Avoid breathing mist, spray, or vapors.

# · Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Use explosion-proof apparatus / fittings and spark-proof tools. Ground and bond container and receiving equipment.

## • 7.2 Conditions for safe storage, including any incompatibilities

Storage:

- · Requirements to be met by storerooms and receptacles:
- Keep in a dry and clean area, away from incompatible substances
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.

Store locked up.

· 7.3 Specific end use(s) See section 1.2

## **SECTION 8: Exposure controls/personal protection**

## · 8.1 Control parameters

## <sup>•</sup> Ingredients with limit values that require monitoring at the workplace:

## 123-86-4 n-butyl acetate

WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppm Long-term value: 724 mg/m<sup>3</sup>, 150 ppm

## 110-43-0 heptan-2-one

WEL Short-term value: 475 mg/m<sup>3</sup>, 100 ppm Long-term value: 237 mg/m<sup>3</sup>, 50 ppm

Sk

## Additional information:

The lists valid during the making were used as basis.

Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.

## · 8.2 Exposure controls

· Appropriate engineering controls No further data; see section 7.

## Individual protection measures, such as personal protective equipment

• General protective and hygienic measures: Wash hands before breaks and at the end of work. • Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Advice should be sought from respiratory protection specialists.

If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

(Contd. on page 5)



(Contd. of page 3)

GB -

Printing date 25.09.2024

Version number 3.01 (replaces version 3.00)

Revision: 25.09.2024

Page 5/10

#### Trade name: 4226A

(Contd. of page 4)

 Hand protection Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves: EN374

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

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### · Eye/face protection



Safety glasses or tightly sealed goggles: EN 166

## **SECTION 9: Physical and chemical properties**

Information on basic physical and chemical properties     Physical state     Liquid		
· Form: Viscous		
· Colour:	Clear	
· Odour:	Aromatic	
· Odour threshold:	Not determined.	
· Melting point/freezing point:	Undetermined.	
· Boiling point or initial boiling point and		
range	126 ℃	
· Flammability	Flammable.	
· Lower and upper explosion limit	Tamhable.	
· Lower:	1 Vol %	
· Upper:	7 Vol %	
<sup>·</sup> Flash point:	27 °C (123-86-4 n-butyl acetate)	
	415 ℃	
• Auto-ignition temperature:	Not determined.	
• Decomposition temperature:	Not determined.	
· pH	not determined.	
· Viscosity:	$00  \text{Fmm}^{2/2}$	
· Kinematic viscosity at 40 °C	>20.5 mm²/s	
	• Dynamic: Not determined.	
Solubility		
water:	Not miscible or difficult to mix.	
<ul> <li>Partition coefficient n-octanol/water (log</li> </ul>		
<ul> <li>Vapour pressure at 20 °C:</li> <li>10.7 hPa (123-86-4 n-butyl acetate)</li> </ul>		
· Vapour pressure at 50 °C: 55 hPa		
• Relative density at 25 °C: 0.957		
<ul> <li>Vapour density (air=1):</li> </ul>	· Vapour density (air=1): ≥3.9	
<ul> <li>Particle characteristics</li> </ul>	Not applicable.	

(Contd. on page 6)

GB ·



Page 6/10

Printing date 25.09.2024

Version number 3.01 (replaces version 3.00)

Revision: 25.09.2024

Trade name: 4226A

	(Contd. of page 5)	
<ul> <li>9.2 Other information</li> <li>Important information on protection of health and environment, and on safety.</li> </ul>		
<ul> <li>Ignition temperature:</li> <li>Explosive properties:</li> </ul>	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.	
<ul> <li>Solvent content:</li> <li>Organic solvents:</li> <li>VOC (EC)</li> <li>Solids content:</li> <li>Evaporation rate</li> </ul>		
<ul> <li>Information with regard to physical hazard classes</li> <li>Flammable liquids</li> </ul>	Flammable liquid and vapour.	

## **SECTION 10: Stability and reactivity**

- . 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability Chemically stable at normal temperatures and pressures.
   Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.

## <sup>1</sup> 10.4 Conditions to avoid

Avoid open flames, excessive heat, sparks, ignition sources, and incompatible substances.

• **10.5 Incompatible materials:** Strong oxidizing agents Strong reducing agents Strong bases

## <sup>•</sup> 10.6 Hazardous decomposition products:

No dangerous decomposition products known. Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

## • 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 • Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)			
Oral	LD50	41,750 mg/kg (rat)	
Inhalative	LC50/4 h	>418 mg/kg (rabbit)	

<b>123-86-4 r</b> Oral		>10,768 mg/kg (rat)
Dermal		>17,600 mg/kg (rabbit)
Inhalative	LC50/4 h	>21 mg/L (rat)
110-43-0 k	heptan-2-c	bne
Oral	LD50	1,670 mg/kg (rat)
Dermal	LD50	12,600 µL/kg (rabbit)
Inhalative	LC50/4 h	>16.7 mg/kg (rabbit)
		(Contd. on page



Printing date 25.09.2024

#### Version number 3.01 (replaces version 3.00)

Revision: 25.09.2024

## Trade name: 4226A

136-52-7	cobalt(II)	2-ethylhexanoate
Oral	LD50	3,129 mg/kg (rat)
Dermal	LD50	5,690 mg/kg (rat)

Primary irritant effect:

· 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 sensitisation 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 May cause drowsiness or dizziness.
- 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.

#### Summary of Effects and Symptoms by Routes of Exposure

Eves:

- may cause mild irritation redness pain · Skin: redness, may cause mild irritation dry skin
- · Inhalation:
- cough headache blurred vision
- dizziness or drowsiness
- Swallowed: weakness
- sore throat
- dizziness nausea
- cough

## Additional toxicological information:

Delayed and immediate effects as well as chronic effects from short and long-term exposure Prolonged or repeated exposure may defat skin and cause skin dryness and cracking, and local redness and discomfort.

#### 11.2 Information on other hazards

#### Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

## · 12.1 Toxicity

· Aquatic toxicity:			
123-86-4 n-butyl acetate			
LC50 96h	18 mg/L (minnow)		
110-43-0 h	110-43-0 heptan-2-one		

EC50/ 48 h >100 mg/L (daphnia)

LC50 96h 131 mg/L (minnow)

· 12.2 Persistence and degradability No further relevant information available.

#### · 12.3 Bioaccumulative potential No further relevant information available.

(Contd. on page 8) GB

## Safety data sheet

according to UK REACH

Printing date 25.09.2024

Version number 3.01 (replaces version 3.00)

Revision: 25.09.2024

Page 8/10

Trade name: 4226A

(Contd. of page 7)

• **12.4 Mobility in soil** No further relevant information available.

## 12.5 Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · vPvB: Not applicable.

## <sup>•</sup> 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

#### 12.7 Other adverse effects

## <sup>•</sup> 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.

## **SECTION 13: Disposal considerations**

## <sup>1</sup> 13.1 Waste treatment methods

· Recommendation This material and its container must be disposed of as hazardous waste.

## <sup>•</sup> European waste catalogue

	Flammable
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

## Uncleaned packaging:

· Recommendation:

Containers may still present a chemical hazard/ danger when empty.

Dispose of contents in accordance with all local, regional, national, and international regulations. Where possible retain label warnings and SDS and observe all notices pertaining to the product.

SECTION 14: Transport information		
<ul> <li>14.1 UN number or ID number</li> <li>ADR, IMDG, IATA</li> </ul>	UN1263	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, IMDG</li> <li>IATA</li> </ul>	PAINT Paint	
· 14.3 Transport hazard class(es)		
· ADR, IMDG, IATA		
· Class	3 Flammable liquids.	
· Label	3	
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	III	
<sup>·</sup> 14.5 Environmental hazards:	Not applicable.	
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler cod</li> <li>EMS Number:</li> </ul>	Not applicable. <b>e):</b> 30 F-E, <u>S-E</u>	
	(Contd. on page 9)	



Page 9/10

Printing date 25.09.2024	Version number	3.01 (replaces version 3.00)	Revision: 25.09.202
Frade name: 4226A			
			(Contd. of page 8
· Stowage Category		А	
<ul> <li>14.7 Maritime transport IMO instruments</li> </ul>	in bulk according	<b>g to</b> Not applicable.	
· Transport/Additiona	l information:		
4226A-55ML, 4226A-1L	·		
· ADR			
· Limited quantit		ml	ity per inner packaging: 30 ity per outer packaging:
· Transport categ · Tunnel restriction		3 D/E	
<ul> <li>· IMDG</li> <li>· Limited quantiti</li> <li>· Excepted quant</li> </ul>		ml	ity per inner packaging: 30 ity per outer packaging:
· UN "Model Regulation	on":	UN 1263 PAINT, 3, III	

## **SECTION 15: Regulatory information**

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

Poisons Act

 Regulated explosives precursors (Part 1)
 None of the ingredients is listed.
 Regulated poisons (Part 2)
 None of the ingredients is listed.
 Reportable explosives precursors (Part 3)
 None of the ingredients is listed.
 Reportable poisons (Part 4)
 None of the ingredients is listed.
 Directive 2012/18/EU

• Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

(Contd. on page 10)



Page 10/10

Printing date 25.09.2024

Version number 3.01 (replaces version 3.00)

Revision: 25.09.2024

Trade name: 4226A

(Contd. of page 9)

## DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· 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**

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H336 May cause drowsiness or dizziness.
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.
- H360 May damage fertility or the unborn child.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

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

Flammable liquids	On basis of test data
	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- · Department issuing SDS: Regulatory department
- · Contact: RCustomerservicesUK@rs-components.com
- Date of previous version: 17.05.2024
- · Version number of previous version: 3.00
- Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 Harmonised 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
- PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
- ATE: Acute toxicity estimate values Flam. Liq. 3: Flammable liquids Category 3 Acute Tox. 4: Acute toxicity Category 4 Skin Irrit. 2: Skin corrosion/irritation Category 2

- Resp. Sens. 1: Respiratory sensitisation Category 1
- Skin Sens. 1: Skin sensitisation Category 1 Muta. 2: Germ cell mutagenicity Category 2 Carc. 1B: Carcinogenicity Category 1B Repr. 1B: Reproductive toxicity Category 1B

- STOT SE 3: Specific target organ toxicity (single exposure) Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment long-term aquatic hazard Category 1
- \*\* Data compared to the previous version altered.