

Printing date 25.07.2022 Version number 1.7 Revision: 25.07.2022

1 Identification

- · Product identifier
- Trade name: KREUL Leaf Metal Effect Spray Gold 400 ml KREUL Leaf Metal Effect Spray Silver 400 ml
- · Article number: 994400, 994401
- Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· Application of the substance / the mixture

Lacquer

For artists and hobby user.

- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: C. KREUL GmbH & Co. KG Carl-Kreul-Straße 2 D-91352 HALLERNDORF DEUTSCHLAND Tel. + 49 (0)9545 / 925 - 0

Tel. + 49 (0)9545 / 925 - 0 Fax + 49 (0)9545 / 925 - 511 E-Mail: info@c-kreul.de

Importer Zart Art Pty Ltd 48 Overseas Drive Noble Park North 3174 VIC

Australia

Ph: 61 3 9890 1867 Fax: 61 3 9898 6527

- · Further information obtainable from: Ph: 61 3 9890 1867 Fax: 61 3 9898 6527
- · Emergency telephone number:

Poison Centre 13 11 26 +44 (0)171 635 91 91

2 Hazard(s) Identification

· Classification of the substance or mixture



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.



GHS07

Eye Irritation 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- Label elements
- · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
- Hazard pictograms





GHS02

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- · Signal word Danger
- · Hazard-determining components of labelling:

acetone

n-butyl acetate

2-methoxy-1-methylethyl acetate

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

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H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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.

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

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

Other hazards

Vapours may form explosive mixtures with air. This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/ electrical equipment). Take precautionary measures against static discharges.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.

3 Composition and Information on Ingredients

- · Description: Mixture of substances listed below with nonhazardous additions.
- Dangerous components:

CAS 9004-70-0 is only included in Silver.

O/10 3004-70-0 13 0111y 1110100	ca in circo.	
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-<50%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane Flam. Gas 1A, H220; Press. Gas C, H280	12.5-<20%
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	12.5-<20%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane, pure ♦ Flam. Gas 1A, H220; ♦ Press. Gas C, H280	10-<12.5%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226	5-<10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	isobutane ♦ Flam. Gas 1A, H220; ♦ Press. Gas C, H280	2.5-<5%
CAS: 9004-70-0	nitrocellulose solutions, with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose Flam. Sol. 2, H228	2.5-<5%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	ethanol Flam. Liq. 2, H225; De Irrit. 2, H319	<2.5%
CAS: 1330-20-7 EC number: 905-588-0 Index number: 601-022-00-9	xylene Flam. Liq. 3, H226; Acute Tox. 4, H312; Skin Irrit. 2, H315	<2.5%

Additional information:

Benzene (EINECS 200-753-7) < 0.1%. (Note P Annex VI to Directive (EC) No 1272/2008)

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

4 First Aid Measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

Wash with water and acidic soap.

If skin irritation continues, consult a doctor.

· After eye contact:

Remove contact lenses.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Administer medicinal carbon.

A person vomiting while laying on their back should be turned onto their side.

Seek immediate medical advice.

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- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed

If swallowed or in case of vomiting, danger of entering the lungs.

5 Fire Fighting Measures

- Extinguishing media
- · Suitable extinguishing agents: CO2, powder or water spray. Fight larger fire with alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded.

- Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Keep contaminated washing water and dispose of appropriately.

Do not allow to enter sewers/ surface or ground water.

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

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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.

7 Handling and Storage

- · Handling:
- Precautions for safe handling

Prevent formation of aerosols.

Take note of emission threshold.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

- · Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility:

Do not store together with alkalis (caustic solutions).

Do not store together with oxidising and acidic materials.

Further information about storage conditions:

Keep container tightly sealed.

Store receptacle in a well ventilated area.

- Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

Ingredients with limit values that require monitoring at the workplace:

67-64-1 acetone

WES Short-term value: 2375 mg/m³, 1000 ppm Long-term value: 1185 mg/m³, 500 ppm

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			(Contd. of page	
74-98-6 pro	•		\· 13	
WES Asphyxiant				
123-86-4 n-l	butyl acetate			
WES Short-term value: 950 mg/m³, 200 ppm Long-term value: 713 mg/m³, 150 ppm				
106-97-8 bu		g/iii , 100 ppiii		
	term value: 1900 r	ng/m³ 800 ppm		
	methoxy-1-methyl			
	-term value: 548 m	-		
Long-	term value: 274 m			
Sk				
64-17-5 etha				
	term value: 1880 r	ng/m³, 1000 ppm		
1330-20-7 x	•			
	-term value: 655 m			
	term value: 350 m	g/m°, 80 ppm		
DNELs				
	methoxy-1-methyl			
	ong-term exposure	•	1.67 mg/kg (general population)	
Dermal	ong-term exposure	-systemic effects	54.8 mg/kg bw/d (general population)	
			153.5 mg/kg bw/d (worker)	
Inhalative lo	ong-term exposure	-systemic effects		
			275 mg/m³ (worker)	
64-17-5 etha				
	-	-	87 mg/kg (general population)	
Dermal lo	ong-term exposure	-systemic effects	206 mg/kg bw/d (general population)	
			343 mg/kg bw/d (worker)	
Inhalative	ong-term exposure	-systemic effects	, ,	
			950 mg/m³ (worker)	
PNECs				
	methoxy-1-methyl			
water		6.35 mg/l		
freshwater		0.635 mg/l		
		0.0635 mg/l		
sewage treatment plant (STP) 100 mg/l		"		
		3.29 mg/kg		
		0.329 mg/kg 0.29 mg/kg		
soil 0.29 mg/kg		U.29 mg/kg		
64-17-5 ethanol		2.75 mg/l		
		2.75 mg/l		
Table 111 Tabl		"		
		0.79 mg/l 580 mg/l		
' ' /		3.6 mg/kg		
		0.63 mg/kg		
3011		o.oo mg/kg		

Additional information: The lists valid during the making were used as basis.

· Exposure controls

· 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 eyes and skin.

· 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.

For the permanent contact gloves made of the following materials are suitable:

PVC or PE gloves

Recommended thickness of the material: \geq - mm

Value for the permeation: Level $\leq 8\ h$

As protection from splashes gloves made of the following materials are suitable:

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.3 mm

Value for the permeation: Level $\leq 0.5-8 \text{ h}$

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· Eye protection:



· Body protection: Protective work clothing

9 Physical and Chemical Properties Information on basic physical and chemical properties **General Information** Appearance: Form: Aerosol Odour: Characteristic · Odour threshold: Not determined. · pH-value: Not determined. · Change in condition Melting point/freezing point: Undetermined. Initial boiling point and boiling range: Not applicable, as aerosol. · Flash point: Not applicable, as aerosol. · Flammability (solid, gas): Not applicable. · Ignition temperature: 333 °C · Decomposition temperature: Not determined. Explosive properties: Explosive with or without contact with air. · Explosion limits: 1.2 Vol % Upper: 13 Vol % · Vapour pressure at 20 °C: 2,100 hPa Density at 20 °C: ~0.8 g/cm³ Relative density Not determined. · Vapour density Not determined. **Evaporation rate** Not applicable. · Solubility in / Miscibility with Not miscible or difficult to mix. water: Partition coefficient: n-octanol/water: Not determined. Viscosity: Dynamic: Not determined Kinematic: Not determined. · Solvent content: Organic solvents: 88.7 % VOC (EC) 88.70 % Solids content: 10.5 % · Other information No further relevant information available.

10 Stability and Reactivity

- · Reactivity No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity

	· LD/LC50 values relevant for classification:			
ſ	67-64-1	acetone		
Ī	Oral	LD50	5,800 mg/kg (rat)	

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Dermal	LD50	>15,800 mg/kg (rabbit)	
Inhalative	LC50/4h	76 mg/m³ (rat)	
123-86-4 r	n-butyl ac	etate	
Oral	LD50	10,800 mg/kg (rat)	
Dermal	LD50	>17,600 mg/kg (rabbit)	
Inhalative	LC50/4h	>21 mg/m³ (rat)	
106-97-8 k			
Inhalative	LC50/4h	658 mg/m³ (rat)	
108-65-6 2	2-methoxy	y-1-methylethyl acetate	
Oral	LD50	8,532 mg/kg (rat)	
Dermal	LD50	>5,000 mg/kg (rab)	
		>2,000 mg/kg (rat) (OECD 401)	
Inhalative	LC50/4h	>10,000 mg/l /4h (rat)	
64-17-5 et	hanol		
Oral	LD50	10,470 mg/kg (rat) (OECD 403)	
Dermal	LD50	>2,000 mg/kg (rat)	
		12,800 mg/kg (rabbit)	
Inhalative	LC50/4h	124.7 mg/m³ (rat) (OECD 403)	
1330-20-7 xylene			
Oral	LD50	3,523 mg/kg (rat)	
		2,000 mg/kg (rabbit)	
Inhalative	LC50/4h	21.7 mg/m³ (rat)	

Primary irritant effect:

• Serious eye damage/irritation Irritating effect.
• 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: Irritant

12 Ecological Information

· Toxicity

· Aquatic toxicity:			
67-64-1 acetone			
LC50/96h [8,300 mg/l (fish)			
LC50/48h	8,450 mg/l (crustaceans)		
EC50/96h 7,200 mg/l (algae)			
123-86-4 n-b			
	81 mg/l (fish)		
108-65-6 2-n	nethoxy-1-methylethyl acetate		
EC50	>500 mg/l /48h (daphnia magna)		
	>100 mg/l /21d (daphnia magna) (OECD 211)		
NOEC	47.5 mg/l /48d (oryzias latipes) (OECD 204)		
(EbCx) 10%	>1,000 mg/l (microorgansims)		
ErC50	>1,000 mg/l /96h (pseudokirchneriella subcapitata)		
LC50	63.5 mg/l (oryzias latipes) (OECD 204)		
	180 mg/l /96h (oncorhynchus mykiss)		
LOEC	>1,000 mg/l /96h (pseudokirchneriella subcapitata)		
64-17-5 etha			
LC50/96h	14,200 mg/l (pimephales promelas) (US EPA method E03-0)		
	13,000 mg/l (oncorhynchus mykiss)		
LC50/48h	5,012 mg/l (ceriodaphnia dubia) (ASTM E729-80)		
	12,340 mg/l (daphnia magna)		
EC50/48h	12,900 mg/l (algae)		
	>10,000 mg/l (ceriodaphnia dubia) (DIN 38412 Teil 11)		
	9,950 mg/l (crustaceans)		
EC50/96h	12,900 mg/l (pimephales promelas) (US EPA method E03-0)		
NOEC	2 mg/l /10d (ceriodaphnia dubia) (ECHA)		
	250 mg/l /120h (danio rerio) (OECD 212)		
ErC50	275 mg/l /72h (algae) (OECD 201)		
ErCx 10%	11.5 mg/l /3d (algae) (OECD 201)		
LC50	1,806 mg/l /10d (ceriodaphnia dubia) (ECHA)		
	454 mg/l /9d (daphnia magna) (ECHA)		
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| 1330-20-7 xylene | LC50/96h | 15.7 mg/l (fish) | LC50/48h | 8.5 mg/l (crustaceans) |

- · Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number ADG, IMDG, IATA	UN1950
UN proper shipping name	4050 45000010
ADG IMDG	1950 AEROSOLS AEROSOLS
INDG	AEROSOLS AEROSOLS, flammable
Transport hazard class(es)	,
ADG	
Class	2 5F Gases.
Label	2.1
Class	2.1 Gases.
Label	2.1
Packing group	
ADG, IMDG, IATA	not regulated
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Gases.
Hazard identification number (Kemler code): EMS Number:	- F-D.S-U
Stowage Code	SW1 Protected from sources of heat.
	SW22 For AEROSOLS with a maximum capacity of 1 li Category A. For AEROSOLS with a capacity above 1 li Category B. For WASTE AEROSOLS: Category C, Cleal living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" clas except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

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Transport/Additional information:		
ADG		
Limited quantities (LQ)	1L	
Excepted quantities (EQ)	Code: E0	
,	Not permitted as Excepted Quantity	
Transport category	2	
Tunnel restriction code	D	
IMDG		
Limited quantities (LQ)	1L	
Excepted quantities (EQ)	Code: E0	
,	Not permitted as Excepted Quantity	
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1	

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- **Australian Inventory of Industrial Chemicals**

We confirm that they we are have checked the AICS under here https://www.industrialchemicals.gov.au/search-inventory and we can confirm that each ingredient is either listed on the AICS and within the allowable limit or meets restrictions on said ingredient.

All ingredients are listed.	
· Standard for the Uniform Scheduling of Medicines and Poisons	
67-64-1 acetone	S5
1330-20-7 xylene	S6
· Australia: Priority Existing Chemicals	
None of the ingredients is listed.	

- · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms





- · Signal word Danger
- · Hazard-determining components of labelling:

acetone

n-butyl acetate

2-methoxy-1-methylethyl acetate

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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.

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

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

- Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 vapour.

H226 Flammable liquid and vapour.

H228 Flammable solid.

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H280 Contains gas under pressure; may explode if heated.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· Contact: Ph: 61 3 9890 1867 Fax: 61 3 9898 6527

· 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)

Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose. 50 percent

LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
Press. Gas C: Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Flam. Sol. 2: Flammable solids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eve Irritation 2A: Serious eye damage/eye irritation – Category 2
Eve Irritation 2A: Serious eye damage/eye irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.