

Printing date 02.06.2015 Version number 33 Revision: 02.06.2015

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

- · 1.1 Product identifier
- · Trade name: MOTIP CARAT GOLD AND MOTIP CARAT SILVER
- · Article number: 08037 and 08036
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Paint
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

MOTIP DUPLI B.V.

Wolfraamweg 2

NL-8471 XC Wolvega

The Netherlands

Tel: +31 (0)561 694400

Fax: +31 (0)561 694411

e-mail info@nl.motipdupli.com

- · Further information obtainable from: QHSE Department
- 1.4 Emergency telephone number: +31 (0)561-694400 (09:00h 17:00h)

SECTION 2: Hazards 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. Pressurised container: May burst if heated.



> GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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



Xi; Irritant

R36: Irritating to eyes.



F+; Extremely flammable

R12: Extremely flammable.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and

· Information concerning particular hazards for human and environment:

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

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. Warning! Pressurised container.

Has a narcotising effect.

· 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

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

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

· Hazard pictograms





GHS02 GHS07

· Signal word Danger

· Hazard-determining components of labelling:

acetone

n-butyl acetate

butan-1-ol

propan-2-ol

· Hazard statements

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

H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.

· Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe spray.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

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

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

· Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 67-64-1	acetone	25-50%
EINECS: 200-662-2	Xi R36	
Index number: 606-001-00-8	▶ <i>F R11</i>	
Reg.nr.: 01-2119471330-49-xxxx		
	♠ Flam. Liq. 2, H225♠ Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 115-10-6	dimethyl ether	20-25%
EINECS: 204-065-8	F+R12	
Index number: 603-019-00-8	https://www.figur.com/rights/sept.com/rights/s	1
Reg.nr.: 01-2119472128-37-xxxx	Press. Gas C, H280	

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	(Cont	d. of page
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29-xxxx	2-methoxy-1-methylethyl acetate R10 Flam. Liq. 3, H226	5-10%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-xxxx	propane F+ R12 Flam. Gas 1, H220 Press. Gas C, H280	5-10%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-xxxx	butane F+ R12 Flam. Gas 1, H220 Press. Gas C, H280	5-10%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29-xxxx	n-butyl acetate R10-66-67	5-10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-xxxx	isobutane ▶ F+ R12 ◆ Flam. Gas 1, H220 Press. Gas C, H280	5-10%
CAS: 9004-70-0	Nitrocellulose (nitrogen content <12.6%) FR11 Flam. Sol. 1, H228	1-2.5%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32-xxxx	xylene Xn R20/21 Xi R38 R10 ♦ Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	1-2.5%
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38-xxxx	butan-1-ol Xn R22 Xi R37/38-41 R10-67 Flam. Liq. 3, H226 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	1-2.5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol	1-2.5%
CAS: 64742-94-5 EINECS: 265-198-5 Index number: 649-424-00-3 Reg.nr.: 01-2119494196-28-xxxx	Solvent naphtha (petroleum), heavy arom. Xn R65 Asp. Tox. 1, H304	1-2.5%
CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35-xxxx	Solvent naphtha (petroleum), light arom.	0.1-1%

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· Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

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

- · 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: Firefighting measures

- · 5.1 Extinguishing media
- · 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
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

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

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

- 6.3 Methods and material for containment and cleaning up: 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 storage

- · 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection:

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

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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.

- · 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 packagings with pressurised containers.

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

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- · Further information about storage conditions: Protect from heat and direct sunlight.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

Ingre	edients with limit values that require monitoring at the workplace:
67-64	4-1 acetone
WEL	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm
115-	0-6 dimethyl ether
WEL	Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm
108-0	65-6 2-methoxy-1-methylethyl acetate
WEL	Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk
106-9	97-8 butane
WEL	Short-term value: 1810 mg/m^3 , 750 ppm Long-term value: 1450 mg/m^3 , 600 ppm Carc (if more than 0.1% of buta- 1.3 -diene)
123-8	86-4 n-butyl acetate
WEL	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm
1330	-20-7 xylene
WEL	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
71-30	6-3 butan-1-ol
WEL	Short-term value: 154 mg/m³, 50 ppm Sk
<i>67-6</i> .	3-0 propan-2-ol
WEL	Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm
Ingre	edients with biological limit values:
1330	-20-7 xylene
BMG	V 650 mmol/mol creatinine Medium: urine
	Sampling time: post shift

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Parameter: methyl hippuric acid

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.

Avoid contact with the eyes and skin.

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- · Respiratory protection: Not required.
- · Protection of hands: Not required.
- · Material of gloves Not required.
- · Penetration time of glove material Not required.
- · Eye protection:



Tightly sealed goggles

9.1 Information on basic physical an	nd chemical properties
General Information	ш спетисш ргорегиез
Appearance:	
Form:	Aerosol
Colour:	According to product specification
Odour: Odour threshold:	Characteristic Not determined.
pH-value:	Not determined.
<u> </u>	noi aciernatea.
Change in condition Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.
	< 0 °C (< 32 °F)
Flash point:	Not applicable, as aerosol.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	240 °C (464 °F)
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	2.6 Vol %
Upper:	26.2 Vol %
Vapour pressure at 20 °C (68 °F):	4000 hPa (3000 mm Hg)
Density at 20 °C (68 °F):	$0.707 \ g/cm^3 \ (5.9 \ lbs/gal)$
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water	r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	93.2 %

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· EU-VOC in %:	93.19 %
· Solids content: · 9.2 Other information	20.3 % No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 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.
- \cdot 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

S_{λ}	ECTION 11: Toxicological information
	l.1 Information on toxicological effects cute toxicity
$\cdot L$	D/LC50 values relevant for classification:
67	7-64-1 acetone

Oral	LD50	5800 mg/kg (rat)	
Dermal	LD50	20000 mg/kg (rabbit)	
Inhalative	LC50 / 4 h	39 mg/m3 (rat)	
115-10-6 d	limethyl eth	er	
Inhalative	LC50 / 4 h	308 mg/m3 (rat)	
108-65-62	2-methoxy-1	-methylethyl acetate	
Oral	LD50	8532 mg/kg (rat)	
Dermal	LD50	>5000 mg/kg (rabbit)	
Inhalative	LC50 / 4 h	35.7 mg/m3 (rat)	
106-97-8 l	outane		
Inhalative	LC50 / 4 h	658000 mg/m3 (rat)	
123-86-4 1	i-butyl aceto	nte	
Oral	LD50	10770 mg/kg (rat)	
Dermal	LD50	>17600 mg/kg (rabbit)	
Inhalative	LC50 / 4 h	>21.0 mg/m3 (rat)	
1330-20-7	1330-20-7 xylene		

1330-20-7	xylene	
Oral	LD50	3523 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4h	22.1 mg/m3 (rat)

71-36-3 bu	ıtan-1-ol	
	LD50	2292 mg/kg (rat)
Dermal	<i>LD50</i>	3430 mg/kg (rabbit)
Inhalative	LC50 / 4 h	3430 mg/kg (rabbit) 17.76 mg/m3 (rat)

67-63-0 propan-2-ol		
Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	5045 mg/kg (rat) 12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/m3 (rat)

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64742-95-	6 Solvent na	uphtha (petroleum), light arom.
Oral	LD50	3592 mg/kg (rat) (OECD401)
Dermal	LD50	>3160 mg/kg (rab) (OECD402)
Inhalative	LC50 / 4 h	>6193 mg/m3 (rat)
64742-48-	9 Naphta (p	etroleum), hydrotreated heavy
Oral	LD50	>15000 mg/kg (rat)
Dermal	<i>LD50</i>	>3000 mg/kg (rab)
Inhalative	LC50 / 4 h	>2.8 mg/m3 (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation Irritating effect.
- · Respiratory or skin sensitisation No sensitising 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: Irritant

SECTION 12: Ecological information

· 12.1 Toxicity

· 12.1 Toxicity	
· Aquatic toxicity:	
67-64-1 acetone	
EC50 / 48 h	8800 mg/l (daphnia magna)
LC50 / 48 h	2262 mg/l (daphnia magna)
LC50 / 96 h (static)	5540 mg/l (fish)
115-10-6 dimethyl ethe	er
EC50 / 48 h	>4000 mg/l (daphnia magna)
108-65-6 2-methoxy-1	methylethyl acetate
EC50	408 mg/l (daphnia magna)
123-86-4 n-butyl aceta	te
EC50 / 48 h	44 mg/l (daphnia magna)
EC50 / 96 h	320 mg/l (algae)
LC50 / 24 h	205 mg/l (daphnia magna)
LC50 / 96 h	18 mg/l (Pimephales promelas)
1330-20-7 xylene	
EC50 / 48 h	7.4 mg/l (daphnia magna)
LC50/96 h	13.5 mg/l (fish)
71-36-3 butan-1-ol	
EC50 / 48 h	1328 mg/l (daphnia magna)
EC50 / 72 h	8500 mg/l (algae)
LC50 / 96 h	1376 mg/l (Pimephales promelas)
67-63-0 propan-2-ol	
EC50 / 48 h	13299 mg/l (daphnia magna)
LC50/96 h (dynamic)	4200 mg/l (fish)
64742-95-6 Solvent na	phtha (petroleum), light arom.
EC50 / 24 h	150 mg/l (daphnia magna)
EC50 / 48 h	7.4 mg/l (daphnia magna)
LC50/96 h	3.77 mg/l (fish)

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64742-48-9 Naphta (petroleum), hydrotreated heavy

LC50 / 96 h >100 mg/l (crustacean (amphipod)) >100 mg/l (fish)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · 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

- · Uncleaned packaging:
- · Recommendation: Non contaminated packagings may be recycled.

SECTION 14: Transport information

- · 14.1 UN-Number
- · ADR, IMDG, IATA UN1950
- · 14.2 UN proper shipping name

· ADR 1950 AEROSOLS · IMDG AEROSOLS

· IATA AEROSOLS, flammable

- · 14.3 Transport hazard class(es)
- $\cdot ADR$



· Class
 · Label
 2 5F Gases.
 2.1

· IMDG, IATA



• Class 2.1 • Label 2.1

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· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Gases.
· Danger code (Kemler):	-
· EMS Number:	F- D , S - U
· 14.7 Transport in bulk according to Anne	ex II of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· <i>ADR</i>	
· Limited quantities (LQ)	IL
\cdot Excepted quantities (\widetilde{EQ})	Code: E0
	Not permitted as Excepted Quantity
· Transport category	2
· Tunnel restriction code	D
· IMDG	
· Limited quantities (LQ)	1L
\cdot Excepted quantities (\widetilde{EQ})	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
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I 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

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H228 Flammable solid.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- R10 Flammable.
- R11 Highly flammable.

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R12 Extremely flammable.

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

R22 Harmful if swallowed.

R36 Irritating to eyes.

R37 Irritating to respiratory system.

R37/38 Irritating to respiratory system and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

· Department issuing MSDS: R&D legislation and regulatory advisor

· Contact: Mr. K. Smedeman

· 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)

ICAO: International Civil Aviation Organisation

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 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)

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 C: Gases under pressure: Compressed gas

 ${\it Flam. \ Liq.\ 2: Flammable\ liquids,\ Hazard\ Category\ 2}$

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

Flam. Sol. 1: Flammable solids, Hazard Category 1

Acute Tox. 4: Acute toxicity, Hazard Category 4

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

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

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

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

* * Data compared to the previous version altered.

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