



LTT362 CROMATO Oro - P - Chromate Gold - P

Safety Data Sheet dated 7/19/2019, version 1

1. Identification

GHS Product identifier	
Mixture identification:	
Trade name:	CROMATO Oro - P - Chromate Gold - P
Other means of identification	
Trade code:	LTT362
Recommended use and restrictions on use	
Recommended use:	
Industrial and professional uses (SU3 -	SU22)
Varnish	
Supplier's details	
Company:	
NUOVA S.I.V.A.M. SpA - Via Monviso, Importer:	10 - 20010 BAREGGIO (MI) - Tel. +39 02 90304.1
Quincaillerie Richelieu Ltée/Richelieu Ha	ardware Ltd.
7900 Henri-Bourassa Blvd. W.	
Montreal, Quebec, Canada, H4S 1V4	
Tel :+1-514-832-4010	
Emergency phone number for Canada:	Canutec (613) 996-6666
Distributor:	
Quincaillerie Richelieu Ltée/Richelieu Ha	ardware Ltd.
7900 Henri-Bourassa Blvd. W.	
Montreal, Quebec, Canada, H4S 1V4	
Tel :+1-514-832-4010	
Emergency phone number for Canada:	
Competent person responsible for the safety dat	a sheet:
msds@sivam.it	
Emergency phone number	
NUOVA S.I.V.A.M. SpA - Tel. +39 02 9	
Poison Centre - Ospedale di Niguarda -	Milan - Tel. +39 02 66101029 (24 h)

2. Hazard identification

Classification of the hazardous product

- Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
- Warning, Eye Irrit. 2A, Causes serious eye irritation.
- Warning, Repr. 2, Suspected of damaging fertility or the unborn child. Warning, STOT SE 3, May cause drowsiness or dizziness.
- Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

GHS label elements, including precautionary statements Hazard pictograms:



Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

- H361 Suspected of damaging fertility or the unborn child.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof [electrical/ventilating/lighting/...] equipment.
- P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash ... Thoroughly after handling.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTER/ doctor/if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use ... to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

Special provisions

None

Other hazards

None aredient(s) with unknown

Ingredient(s) with unknown acute toxicity None.

3. Composition/Information on ingredients

Substances

N.A. Mixtures

Hazardous components within the meaning of WHMIS 2015 and related classification:

Qty	Name	Ident. Number		Classification
>= 15% - < 40%	isobutyl acetate [2]	Index number: CAS: EC: REACH No.:	607-026-00-7 110-19-0 203-745-1 01-2119488971- 22	 ♦ B.6/2 Flam. Liq. 2 H225 ♦ A.8/3 STOT SE 3 H336
>= 15% - < 40%	ethyl acetate	Index number: CAS: EC: REACH No.:	607-022-00-5 141-78-6 205-500-4 01-2119475103- 46	 ♦ B.6/2 Flam. Liq. 2 H225 ♦ A.3/2A Eye Irrit. 2A H319 ♦ A.8/3 STOT SE 3 H336
>= 3% - < 7%	1-methoxy-2-propanol; monopropylene glycol methyl ether	Index number: CAS: EC: REACH No.:	603-064-00-3 107-98-2 203-539-1 01-2119457435- 35	 ♦ B.6/3 Flam. Liq. 3 H226 ♦ A.8/3 STOT SE 3 H336
>= 3% - < 7%	acetone; propan-2-one; propanone	Index number: CAS: EC: REACH No.:	606-001-00-8 67-64-1 200-662-2 01-2119471330- 49	 ♦ B.6/2 Flam. Liq. 2 H225 ♦ A.8/3 STOT SE 3 H336
>= 1% - < 5%	cyclohexanone	Index number: CAS: EC: REACH No.:	606-010-00-7 108-94-1 203-631-1 01-2119453616- 35	 B.6/3 Flam. Liq. 3 H226 A.1/4/Oral Acute Tox. 4 H302 A.1/4/Dermal Acute Tox. 4 H312 A.2/2 Skin Irrit. 2 H315 A.3/1 Eye Dam. 1 H318 A.1/4/Inhal Acute Tox. 4 H332
>= 1% - < 5%	2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve	Index number: CAS: EC: REACH No.:	603-014-00-0 111-76-2 203-905-0 01-2119475108- 36	 A.2/2 Skin Irrit. 2 H315 A.3/2A Eye Irrit. 2A H319 B.6/4 Flam. Liq. 4 H227 A.1/4/Oral Acute Tox. 4 H302 A.1/4/Dermal Acute Tox. 4 H312 A.1/4/Inhal Acute Tox. 4 H332

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	>= 1% - < 5%	toluene	Index number: CAS: EC: REACH No.:	108-88-3 203-625-9 01-2119471310- 51	 B.6/2 Flam. Liq. 2 H225 A.7/2 Repr. 2 H361 A.10/1 Asp. Tox. 1 H304 A.9/2 STOT RE 2 H373 A.2/2 Skin Irrit. 2 H315 A.8/3 STOT SE 3 H336
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The actual concentration of the components listed above is withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

- In case of skin contact:
 - Immediately take off all contaminated clothing.
 - Remove contaminated clothing immediately and dispose off safely.
 - After contact with skin, wash immediately with soap and plenty of water.
- In case of eyes contact:
 - After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.
 - Protect uninjured eye.
- In case of Ingestion:
- Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
- In case of Inhalation:
- Remove casualty to fresh air and keep warm and at rest.
- Most important symptoms/effects, acute and delayed

None

- Indication of immediate medical attention and special treatment needed, if necessary
 - In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment: None
- 5. Fire-fighting measures

Suitable and unsuitable extinguishing media Suitable extinguishing media: In case of fire: Use ... to extinguish. Unsuitable extinguishing media: None in particular. Specific hazards arising from the hazardous product Do not inhale explosion and combustion gases. Burning produces heavy smoke. Hazardous combustion products: None Explosive properties: N.D. in volume Oxidizing properties: N.D. Special protective equipment and precautions for fire-fighters Use suitable breathing apparatus . Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear personal protection equipment. Remove all sources of ignition. Remove persons to safety. See protective measures under point 7 and 8. Methods and material for containment and cleaning up

- Week with planty of water
- Wash with plenty of water.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

- Exercise the greatest care when handling or opening the container.
- Do not use on extensive surface areas in premises where there are occupants.
- Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

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Contamined clothing should be changed before entering eating areas. Do not eat or drink while working. See also section 8 for recommended protective equipment. Conditions for safe storage, including any incompatibilities Always keep in a well ventilated place. Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight. Avoid accumulating electrostatic charge. Keep away from food, drink and feed. Incompatible materials: None in particular. Instructions as regards storage premises: Cool and adequately ventilated. Safety electric system. Storage temperature: Store at ambient temperature.

8. Exposure controls/personal protection

Control parameters isobutyl acetate [2] - CAS: 110-19-0 ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr ethyl acetate - CAS: 141-78-6 ACGIH - TWA(8h): 400 ppm - Notes: URT and eye irr EU - TWA(8h): 734 mg/m3, 200 ppm - STEL: 1468 mg/m3, 400 ppm 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2 EU - TWA(8h): 375 mg/m3, 100 ppm - STEL: 563 mg/m3, 150 ppm - Notes: Skin ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - Eye and URT irr acetone; propan-2-one; propanone - CAS: 67-64-1 EU - TWA(8h): 1210 mg/m3, 500 ppm ACGIH - TWA(8h): 250 ppm - STEL: 500 ppm - Notes: A4, BEI - URT and eye irr, CNS impair cyclohexanone - CAS: 108-94-1 EU - TWA(8h): 40.8 mg/m3, 10 ppm - STEL: 81.6 mg/m3, 20 ppm - Notes: Skin ACGIH - TWA(8h): 20 ppm - STEL: 50 ppm - Notes: Skin, A3 - Eye and URT irr 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2 EU - TWA(8h): 98 mg/m3, 20 ppm - STEL: 246 mg/m3, 50 ppm - Notes: Skin ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - Eye and URT irr toluene - CAS: 108-88-3 EU - TWA(8h): 192 mg/m3, 50 ppm - STEL: 384 mg/m3, 100 ppm - Notes: Skin ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - Visual impair, female repro, pregnancy loss **DNEL Exposure Limit Values** isobutyl acetate [2] - CAS: 110-19-0 Worker Industry: 300 mg/m3 - Worker Professional: 300 mg/m3 - Consumer: 35.7 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Worker Industry: 600 mg/m3 - Worker Professional: 600 mg/m3 - Consumer: 300 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects Worker Industry: 10 mg/kg - Worker Professional: 10 mg/kg - Consumer: 5 mg/kg - Exposure: Human Dermal -Frequency: Long Term, systemic effects Consumer: 5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects ethyl acetate - CAS: 141-78-6 Worker Industry: 1468 mg/m3 - Worker Professional: 1468 mg/m3 - Consumer: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects Worker Industry: 1468 mg/m3 - Worker Professional: 1468 mg/m3 - Consumer: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects Worker Industry: 63 mg/kg - Worker Professional: 63 mg/kg - Consumer: 37 mg/kg - Exposure: Human Dermal -Frequency: Long Term, systemic effects Worker Industry: 734 mg/m3 - Worker Professional: 734 mg/m3 - Consumer: 367 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Worker Industry: 734 mg/m3 - Worker Professional: 734 mg/m3 - Consumer: 367 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects Consumer: 4.5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2 Worker Industry: 553.5 mg/m3 - Worker Professional: 553.5 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects Worker Industry: 369 mg/m3 - Worker Professional: 369 mg/m3 - Consumer: 43.9 - Exposure: Human Inhalation -Frequency: Long Term, systemic effects Worker Industry: 183 mg/kg - Worker Professional: 183 mg/kg - Consumer: 78 mg/kg - Exposure: Human Dermal -Frequency: Long Term, systemic effects Consumer: 33 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects acetone; propan-2-one; propanone - CAS: 67-64-1 Worker Industry: 186 mg/kg - Worker Professional: 186 mg/kg - Consumer: 62 mg/kg - Exposure: Human Dermal -

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Frequency: Long Term, systemic effects Worker Industry: 2420 mg/m3 - Worker Professional: 2420 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects Worker Industry: 1210 mg/m3 - Worker Professional: 1210 mg/m3 - Consumer: 200 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Consumer: 62 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects cyclohexanone - CAS: 108-94-1 Worker Industry: 4 mg/kg - Worker Professional: 4 mg/kg - Consumer: 1 mg/kg - Exposure: Human Dermal -Frequency: Long Term, systemic effects Worker Industry: 40 mg/m3 - Worker Professional: 40 mg/m3 - Consumer: 10 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Consumer: 1.5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2 Worker Industry: 125 mg/kg - Worker Professional: 125 mg/kg - Consumer: 75 mg/kg - Exposure: Human Dermal -Frequency: Long Term, systemic effects Worker Industry: 98 mg/m3 - Worker Professional: 98 mg/m3 - Consumer: 59 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Consumer: 6.3 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects toluene - CAS: 108-88-3 Worker Industry: 384 mg/kg - Worker Professional: 384 mg/kg - Consumer: 226 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects Worker Industry: 192 mg/m3 - Worker Professional: 192 mg/m3 - Consumer: 56.5 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Consumer: 8.13 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects **PNEC Exposure Limit Values** isobutyl acetate [2] - CAS: 110-19-0 Target: Fresh Water - Value: 0.17 mg/l Target: Marine water - Value: 0.017 mg/l Target: Intermittent emission - Value: 0.34 mg/l Target: Microorganisms in sewage treatments - Value: 200 mg/l Target: Freshwater sediments - Value: 0.877 mg/kg Target: Marine water sediments - Value: 0.0877 mg/kg Target: Soil (agricultural) - Value: 0.0755 mg/kg ethyl acetate - CAS: 141-78-6 Target: Fresh Water - Value: 0.24 mg/l Target: Marine water - Value: 0.02 mg/l Target: Intermittent emission - Value: 1.65 mg/l Target: Microorganisms in sewage treatments - Value: 650 mg/l Target: Freshwater sediments - Value: 1.15 mg/kg Target: Marine water sediments - Value: 0.115 mg/kg Target: Soil (agricultural) - Value: 0.148 mg/kg Target: Food chain - Value: 200 mg/kg 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2 Target: Fresh Water - Value: 10 mg/l Target: Marine water - Value: 1 mg/l Target: Intermittent emission - Value: 100 mg/l Target: Freshwater sediments - Value: 52.3 mg/kg Target: Marine water sediments - Value: 5.2 mg/kg Target: Soil (agricultural) - Value: 4.59 mg/kg Target: Microorganisms in sewage treatments - Value: 100 mg/l acetone; propan-2-one; propanone - CAS: 67-64-1 Target: Fresh Water - Value: 10.6 mg/l Target: Marine water - Value: 1.06 mg/l Target: Intermittent emission - Value: 21 mg/l Target: Microorganisms in sewage treatments - Value: 100 mg/l Target: Freshwater sediments - Value: 30.4 mg/kg Target: Marine water sediments - Value: 3.04 mg/kg Target: Soil (agricultural) - Value: 29.5 mg/kg cyclohexanone - CAS: 108-94-1 Target: Fresh Water - Value: 0.033 mg/l Target: Marine water - Value: 0.0033 mg/l Target: Freshwater sediments - Value: 0.168 mg/kg Target: Marine water sediments - Value: 0.017 mg/kg Target: Intermittent emission - Value: 0.329 mg/l Target: Microorganisms in sewage treatments - Value: 10 mg/l Target: Soil (agricultural) - Value: 0.014 mg/kg 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2 Target: Fresh Water - Value: 8.8 mg/l Target: Marine water - Value: 0.88 mg/l

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Target: Intermittent emission - Value: 9.1 mg/l Target: Freshwater sediments - Value: 8.14 mg/kg Target: Marine water sediments - Value: 3.46 mg/kg

- Target: Microorganisms in sewage treatments Value: 463 mg/l
- Target: Food chain Value: 20 mg/kg
- Target: Soil (agricultural) Value: 2.33 mg/kg toluene CAS: 108-88-3

Target: Fresh Water - Value: 0.68 mg/l

Target: Marine water - Value: 0.68 mg/l

Target: Intermittent emission - Value: 0.68 mg/l

- Target: Freshwater sediments Value: 16.39 mg/kg
- Target: Marine water sediments Value: 16.39 mg/kg
- Target: Microorganisms in sewage treatments Value: 13.61 mg/l
- Target: Soil (agricultural) Value: 2.89 mg/kg

Biological Exposure Index

toluene - CAS: 108-88-3

Value: 0.02 mg/L - medium: Blood - Biological Indicator: Toluene in blood - Sampling Period: End of turn; End of working week

Appropriate engineering controls

None

Individual protection measures, such as personal protective equipment (PPE)

Eye protection:

Eye glasses with side protection. (EN166)

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber. (EN374)

Respiratory protection:

Use adequate protective respiratory equipment. Thermal Hazards:

None

9. Physical and chemical properties

Appearance and colour:	coloured fluid
Odour:	typical
Odour threshold:	N.D.
pH:	N.A.
Melting point / freezing point:	N.D. °C
	-
Initial boiling point and boiling range:	> 55 °C
Flash point:	< 0 °C
Evaporation rate:	N.D.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive lim	hits: 11.5% - 2.1% Vol. (Ethyl acetate)
Vapour pressure:	N.D. (20 °C)
Vapour density:	>1
Relative density:	0.895 - 0.915
Solubility in water:	partial
Solubility in oil:	partial
Partition coefficient (n-octanol/water):	N.D.
Auto-ignition temperature:	> 300 °C
Decomposition temperature:	N.D. °C
Viscosity:	N.D.

10. Stability and reactivity

Reactivity

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth), and nitrides.

It may catch fire on contact with oxidising mineral acids, powerful oxidising agents, and powerful reducing agents.

Conditions to avoid

Avoid accumulating electrostatic charge.

Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products None.

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11. Toxicological information
        Information on toxicological effects
        Toxicological information of the product:
                 CROMATO Oro - P - Chromate Gold - P
                 a) acute toxicity
                         Not classified
                         No data available for the product
                 b) skin corrosion/irritation
                         Not classified
                         No data available for the product
                 c) serious eye damage/irritation
                         The product is classified: Eye Irrit. 2A H319
                 d) respiratory or skin sensitisation
                         Not classified
                         No data available for the product
                 e) germ cell mutagenicity
                         Not classified
                         No data available for the product
                 f) carcinogenicity
                         Not classified
                         No data available for the product
                 g) reproductive toxicity
                         The product is classified: Repr. 2 H361
                 h) STOT-single exposure
                         The product is classified: STOT SE 3 H336
                 i) STOT-repeated exposure
                         The product is classified: STOT RE 2 H373
                 i) aspiration hazard
                         Not classified
                         No data available for the product
        Toxicological information of the main substances found in the product:
                 isobutyl acetate [2] - CAS: 110-19-0
                 a) acute toxicity
                         Test: LD50 - Route: Oral - Species: Rat = 13.4 g/kg - Source: OCSE 401
                         Test: LD50 - Route: Oral - Species: Rabbit = 4.76 g/kg
                         Test: LC50 - Route: Inhalation - Species: Rat > 23.4 mg/l - Duration: 4h - Source: OCSE 403
                         Test: LD50 - Route: Skin - Species: Rabbit > 17.4 g/kg - Source: OCSE 402
                 ethyl acetate - CAS: 141-78-6

 a) acute toxicity:

                         Test: LD50 - Route: Oral - Species: Rat = 4934 mg/kg - Source: OCSE 401
                         Test: LD50 - Route: Skin - Species: Rabbit > 20000 mg/kg
                 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
                 a) acute toxicity:
                         Test: LD50 - Route: Oral - Species: Rat = 4016 mg/kg
                         Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
                         Test: LC50 - Route: Inhalation - Species: Rat = 54.6 mg/l - Duration: 4h
                 acetone; propan-2-one; propanone - CAS: 67-64-1
                 a) acute toxicity:
                         Test: LD50 - Route: Oral - Species: Rat = 5800 mg/kg
                         Test: LD50 - Route: Skin - Species: Rabbit > 20 ml/kg
                         Test: LC50 - Route: Inhalation - Species: Rat = 76 mg/l - Duration: 4h
                 cyclohexanone - CAS: 108-94-1
                 a) acute toxicity:
                         Test: LD50 - Route: Oral - Species: Rat = 1890 mg/kg
                         Test: LD50 - Route: Skin - Species: Rabbit > 794 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 6.2 ml/l - Duration: 4h
                 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2
                 a) acute toxicity:
                         Test: LD50 - Route: Oral - Species: Rat = 1300 mg/kg
                         Test: LC50 - Route: Inhalation - Species: Rat > 523 Ppm - Duration: 4h
                         Test: LC50 - Route: Skin - Species: Rabbit > 435 mg/kg
                 toluene - CAS: 108-88-3
                 a) acute toxicity:
                         Test: LD50 - Route: Oral - Species: Rat = 5580 mg/kg
                         Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
                         Test: LC50 - Route: Inhalation - Species: Rat = 28.1 mg/l - Duration: 4h - Source: OECD 403
                 b) skin corrosion/irritation:
                         Test: Skin Irritant - Route: Skin - Species: Rabbit = 500 mg/kg - Source: OECD 404 - Notes: 24h
                 ethyl acetate - CAS: 141-78-6
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The product is extremely volatile and provokes for inhalation, irritation to respiratories tracts. Acute exposition can cause depression of central nervous system whit effects such as drowsiness, reflex loss, narcosis.

acetone; propan-2-one; propanone - CAS: 67-64-1

Observations on human subjects:

Acetone's routes of entry to the body are skin absorption, swallowing and, especially, inhalation. It is eliminated through the lungs (40-70%), in urine (15-30%), and through the skin (10%). Tests carried out with C14 have demonstrated that acetone takes part as an intermediary in the metabolism of lipids and indirectly in the glycidol cycle.

Concentrations > 300 ppm cause: slight irritation to the mucous membranes.

Subjects exposed to 500 ppm of acetone have displayed irritation to the eyes, throat, and nose.

Concentrations = 800 ppm (30') cause: malaise.

cyclohexanone - CAS: 108-94-1

The product is harmful if inhaled.

Repeated exposure can cause burning and irritation to eyes, mouth, nose and throat, cough, respiratory impairment, dizziness, cephalea, nausea and vomiting.

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

The product is harmful if inaled,swallowed or absorbed through skin.Repeated or extended exposures cause headache,drowsiness,weakness, stuttering,blurred vision,urinary albumin,kidneys demages,liver enlargement and haemolysis.

toluene - CAS: 108-88-3

Effects following acute exposure:

At 200 ppm: mild but definite decrease in co-ordination and in reaction time, fatigue, confusion, paraesthesia of the skin; the fatigue lasted over a number of hours together with mild insomnia. At 400 ppm: worsening of symptoms and mental confusion.

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs: cyclohexanone - Group 3 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - Group 3 toluene - Group 3. Substance(s) listed as OSHA Carcinogen(s): None. Substance(s) listed as NIOSH Carcinogen(s): None.

12. Ecological information

Ecotoxicity Adopt good working practices, so that the product is not released into the environment. CROMATO Oro - P - Chromate Gold - P Not classified for environmental hazards No data available for the product isobutyl acetate [2] - CAS: 110-19-0 a) Aquatic acute toxicity: Endpoint: EC50 - Species: Algae = 397 mg/l - Duration h: 72 - Notes: OCSE 201 Endpoint: EC50 - Species: Daphnia = 24.6 mg/l - Duration h: 48 - Notes: OCSE 202 Endpoint: LC50 - Species: Fish = 16.6 mg/l - Duration h: 96 - Notes: OCSE 203 b) Aquatic chronic toxicity: Endpoint: NOEC - Species: Daphnia = 23.2 mg/l - Notes: OCSE 201 (21d) ethyl acetate - CAS: 141-78-6 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Algae > 100 mg/l - Duration h: 72 Endpoint: EC50 - Species: Daphnia = 165 mg/l - Duration h: 48 Endpoint: LC50 - Species: Fish = 230 mg/l - Duration h: 96 b) Aquatic chronic toxicity: Endpoint: NOEC - Species: Daphnia = 2.4 mg/l - Notes: 21d 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Daphnia > 21100 mg/l - Duration h: 48 Endpoint: LC50 - Species: Fish > 4600 mg/l - Duration h: 96 Endpoint: EC50 - Species: Algae > 1000 mg/l - Notes: 7 d acetone; propan-2-one; propanone - CAS: 67-64-1 a) Aquatic acute toxicity: Endpoint: EC50 - Species: Algae = 530 mg/l - Duration h: 192 - Notes: (8 days) Endpoint: LC50 - Species: Daphnia = 8800 mg/l - Duration h: 48 Endpoint: LC50 - Species: Fish = 8120 mg/l - Duration h: 96 cyclohexanone - CAS: 108-94-1 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Daphnia > 100 mg/l - Duration h: 48 LTT362/1

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LTT362 CROMATO Oro - P - Chromate Gold - P Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 Endpoint: EC50 - Species: Fish = 527 mg/l - Duration h: 96 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2 a) Aquatic acute toxicity: Endpoint: EC50 - Species: Algae = 623 mg/l - Duration h: 72 - Notes: OECD 201 Endpoint: EC50 - Species: Daphnia = 1550 mg/l - Duration h: 48 - Notes: OECD 202 Endpoint: LC50 - Species: Fish = 1474 mg/l - Duration h: 96 - Notes: OECD 203 b) Aquatic chronic toxicity: Endpoint: NOEC - Species: Daphnia = 100 mg/l - Notes: 21 d Endpoint: NOEC - Species: Algae = 62.5 mg/l - Duration h: 72 toluene - CAS: 108-88-3 a) Aquatic acute toxicity: Endpoint: EC50 - Species: Algae = 134 mg/l - Duration h: 3 Endpoint: EC50 - Species: Daphnia = 3.78 mg/l - Duration h: 48 Endpoint: LC50 - Species: Fish = 5.5 mg/l - Duration h: 96 b) Aquatic chronic toxicity: Endpoint: NOEC - Species: Algae = 10 mg/l - Duration h: 72 Endpoint: NOEC - Species: Daphnia = 0.74 mg/l - Notes: 7d Endpoint: NOEC - Species: Fish = 1.39 mg/l - Notes: 40d Persistence and degradability isobutyl acetate [2] - CAS: 110-19-0 Biodegradability: Readily biodegradable ethyl acetate - CAS: 141-78-6 Biodegradability: Readily biodegradable - Duration h: 28 days - %: 70 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2 Biodegradability: Readily biodegradable - Duration h: 28 days - %: 96 - Notes: OECD 301E acetone; propan-2-one; propanone - CAS: 67-64-1 Biodegradability: Readily biodegradable 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2 Biodegradability: Readily biodegradable - Duration h: 28 days - %: 90.4 - Notes: OECD 301B toluene - CAS: 108-88-3 Biodegradability: Readily biodegradable Bioaccumulative potential N.A. Mobility in soil N.A. Other adverse effects None

13. Disposal considerations

Safe handling and methods for disposal Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. Transport information



UN number	
TDG number:	UN1263
ADR-UN Number:	1263
DOT number: UN1263	
IATA-UN Number:	1263
IMDG-UN Number:	1263
UN proper shipping name	
TDG-Shipping Name:	PAINT
ADR-Shipping Name:	PAINT
DOT-Shipping Name: Paint inclu	uding paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid
lacquer base or Paint related mat	terial including paint thinning, drying, removing, or reducing compound
IATA-Shipping Name:	PAINT
IMDG-Shipping Name:	PAINT
Transport hazard class(es)	
TDG Class:	3
ADR-Class:	3

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DOT Hazard Class: 3			
ADR - Hazard identification number:	33		
IATA-Class:	3		
IATA-Label:	3		
IMDG-Class:	3		
Packing group			
TDG Packing group:	II		
ADR-Packing Group:	11		
DOT Packing group: II			
IATA-Packing group:	11		
IMDG-Packing group:	II		
Environmental hazards			
ADR-Enviromental Pollutant:	No		
IMDG-Marine pollutant:	No		
Transport in bulk (according to Annex II of MAR	POL 73/78 and the IBC Code)		
N.A.	,		
Special precautions in connection with transport	or conveyance		
Rail (RID):	3		
TDG Special provisions:	59,142		
DOT Special provisions: 149, 367, 383	, B52, B131, IB2, T4, TP1, TP8, TP28		
ADR-Subsidiary risks:	-		
ADR-S.P.:	163 367 640D 650		
ADR-Transport category (Tunnel restriction code): 2 (D/E)			
IATA-Passenger Aircraft:	353		
IATA-Subsidiary risks:	-		
IATA-Cargo Aircraft:	364		
IATA-S.P.:	A3 A72 A192		
IATA-ERG:	3L		
IMDG-EmS:	F-E , S-E		
IMDG-Subsidiary risks:	-		
IMDG-Stowage and handling:	Category A		
IMDG-Segregation:	-		

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

- This Safety Data Sheet has been prepared according to the Hazardous Products Regulations (HPR) WHMIS 2015. NPRI National Pollutant Release Inventory
 - Substance(s) listed under NPRI:
 - ethyl acetate is listed in NPRI Part 5
 - 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve is listed in NPRI Part 5
 - toluene is listed in NPRI Part 5.
 - DSL inventory Domestic substances list
 - All the components are listed in the DSL.
 - NDSL inventory Not Domestic substances list
 - no substances listed
 - TSCA inventory
 - All the components are listed on the TSCA inventory.
 - TSCA listed substances:
 - isobutyl acetate [2] is listed in TSCA Section 8b
 - ethyl acetate is listed in TSCA Section 8b
 - 1-methoxy-2-propanol; monopropylene glycol methyl ether is listed in TSCA Section 8b, Section 8d HSDR acetone; propan-2-one; propanone is listed in TSCA Section 8b
 - cyclohexanone is listed in TSCA Section 8b, Section 8d HSDR
 - 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve is listed in TSCA Section 8b, Section 8d HSDR toluene is listed in TSCA Section 8b, Section 8d HSDR, Section 8a CAIR.

USA - Federal regulations

- SARA Superfund Amendments and Reauthorization Act
 - Section 302 Extremely Hazardous Substances: no substances listed.
 - Section 304 Hazardous substances: isobutyl acetate [2], ethyl acetate, acetone; propan-2-one; propanone,
 - cyclohexanone, toluene.
 - Section 313 Toxic chemical list: toluene.
- CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
 - Substance(s) listed under CERCLA: isobutyl acetate [2] Reportable quantity: 5000 pounds
 - ethyl acetate Reportable quantity: 5000 pounds
 - acetone; propan-2-one; propanone Reportable quantity: 5000 pounds
 - cyclohexanone Reportable quantity: 5000 pounds toluene Reportable quantity: 1000 pounds.
 - Reportable quantity for mixture: 12668.86793 pounds.



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CAA - Clean Air Act CAA listed substances: isobutyl acetate [2] is listed in CAA Section 111 ethyl acetate is listed in CAA Section 111 1-methoxy-2-propanol; monopropylene glycol methyl ether is listed in CAA Section 112(b) - HON acetone; propan-2-one; propanone is listed in CAA Section 111, Section 112(b) - HON cyclohexanone is listed in CAA Section 111, Section 112(b) - HON 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve is listed in CAA Section 111 toluene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON. CWA - Clean Water Act CWA listed substances: isobutyl acetate [2] is listed in CWA Section 311 ethyl acetate is listed in CWA Section 304 acetone; propan-2-one; propanone is listed in CWA Section 304 toluene is listed in CWA Section 304, Section 307, Section 311, CWA Priority Pollutants. USA - State specific regulations California Proposition 65 Substance(s) listed under California Proposition 65: toluene - Listed as reproductive toxicant. Massachusetts Right to know Substance(s) listed under Massachusetts Right to know: isobutyl acetate [2] ethyl acetate 1-methoxy-2-propanol; monopropylene glycol methyl ether acetone; propan-2-one; propanone cyclohexanone 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve toluene. New Jersey Right to know Substance(s) listed under New Jersey Right to know: isobutyl acetate [2] ethyl acetate 1-methoxy-2-propanol; monopropylene glycol methyl ether acetone; propan-2-one; propanone cvclohexanone 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve toluene. Pennsylvania Right to know Substance(s) listed under Pennsylvania Right to know: isobutyl acetate [2] ethyl acetate 1-methoxy-2-propanol; monopropylene glycol methyl ether acetone; propan-2-one; propanone cvclohexanone 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve toluene. Volatile Organic compounds - VOCs = 98.13 %

Volatile Organic compounds - VOCs = 90.13 % Volatile CMR substances = 0.01 % Organic Carbon - C = 0.58

16. Other information

Full text of phrases referred to in Section 3:

H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H319 Causes serious eye irritation.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H227 Combustible liquid.
H361 Suspected of damaging fertility or the unborn child.
H304 May be fatal if swallowed and enters airways.
H373 May cause damage to organs through prolonged or repeated exposure.

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Safety Data Sheet dated 7/19/2019, version 1 Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process. This Safety Data Sheet cancels and replaces any preceding release.

ADR: CAS: CLP: DNEL: EINECS:	European Agreement concerning the International Carriage of Dangerous Goods by Road. Chemical Abstracts Service (division of the American Chemical Society). Classification, Labeling, Packaging. Derived No Effect Level. European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average