



UNI EN ISO 9001:2015 UNI EN ISO 14001:2015 UNI ISO 45001:2018

COLOR INK PP PAM+ADD.

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

| | COLOR INK PP PAM+ADD. |
|---|--|
| UFI: | D770-F0QD-A00D-722M |
| 1.2. Relevant identified uses of the substance or mixture and uses advised against: | |
| 1.3. Details of the supplier of the safety data sheet: | Ichemco srl via 11 Settembre, 5 20012 Cuggiono (MI) Italy |
| Email address of the competent person: | safety@ichemco.it |
| 1.4. Emergency telephone number: | 24hrs, UK: 844 892 0111; EU: +32 3 575 55 55 |
| Further information obtainable from: | Product safety department |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

| Classification in accordance wi | | 72/2008 (CLP) | |
|---------------------------------|----------------------------|--------------------------|-------------------------------|
| Flam. Liq. 2;H | Highly flamm | able liquid and vapour | r. |
| Skin Irrit. 2;H | 315 Causes skin i | rritation. | |
| Eye Dam. 1;H | 318 Causes seriou | ıs eye damage. | |
| STOT SE 3;H | 336 May cause dr | owsiness or dizziness. | |
| Repr. 2;H361 | d Suspected of | damaging the unborn | child. |
| STOT RE 2;H | 373 May cause exposure. | damage to organs | through prolonged or repeated |
| Aquatic Acute | e 1;H400 Very toxic to | aquatic life. | |
| Aquatic Chro | nic 1;H410 Very toxic to | aquatic life with long l | lasting effects. |
| 2.2. Label elements | | • | |
| Hazard pictograms: | | | |

ICHEMCO srl via 11 Settembre, 5 20012 Cuggiono (MI) - ITALY Phone +39 02 97243.1 - Fax +39 02 97243.200: - email: info@ichemco.it - internet: www.ichemco.it

GHS05

- - - -

GHS07

_ _ _ _ .

GHS08

_ _ _ _ .

GHS02

GHS09

SAFETY DATA SHEET

íchemco

| Signal word: | | Danger |
|---------------------------|----------------|---|
| Hazard statements: | H225 | Highly flammable liquid and vapour. |
| nazara statements. | | Causes skin irritation. |
| | | Causes serious eye damage. |
| | | |
| | | May cause drowsiness or dizziness. |
| | H373 | May cause damage to organs through prolonged or repeated |
| | | exposure. |
| | | Very toxic to aquatic life. |
| | | Very toxic to aquatic life with long lasting effects. |
| | | Suspected of damaging the unborn child. |
| Precautionary statements: | P201 | Obtain special instructions before use. |
| | P210 | Keep away from heat/sparks/open flames/hot surfaces No |
| | | smoking. |
| | P280 | Wear protective gloves/protective clothing/eye protection/face |
| | | protection. |
| | P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or |
| | | doctor/physician. |
| | P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position |
| | | comfortable for breathing. |
| | P370+P378 | In case of fire: Use suitable media (see MSDS for instruction) for |
| | | extinction. |
| Contains: | Isobutyl-alcoh | ol - Heptane [and isomers] - Octane [and isomers] - Toluene - Xylene |
| contains. | | 01%) - 2-Propanol |
| | • | |
| 2.3. Other hazards: | | of available data, the product does not contain PBT or vPvB |
| | | quantities ≥ 0.1%. |
| | | oes not contain substances having properties of interference with the |
| | endocrine syst | tem in a concentration \geq 0.1%. |
| | | |

SECTION 3: Composition/information on ingredients

3.1. Substances

n. a.

3.2. Mixtures

| Substance | s presenting a | health or environme | ntal hazard within the mean | ing of directives 67/548/EE | C, 1999/45/EC and 1272/200 | 8 (CLP): |
|-----------|----------------|---------------------|-----------------------------|-----------------------------|----------------------------|----------|
| CAS | FINECS | Registration n. | Denomination | Content | Classification(*) | |

| _AS | EINECS | Registration n. | Denomination | Content | Classification(*) |
|-----------|---|---|--|---|---|
| 108-88-3 | 203-625-9 | 01-2119471310-51 | Toluene | 20 - 25% | Aquatic Chronic 3; H412 |
| | | | | Asp. Tox. 1; H304 | |
| | | | | | Flam. Liq. 2; H225 |
| | | | | | Repr. 2; H361d |
| | | | | | Skin Irrit. 2; H315 |
| | | | | | STOT RE 2; H373 |
| | | | | | STOT SE 3; H336 |
| 1330-20-7 | 215-535-7 | 01-2119488216-32 | Xylene (benzene < 0.01%) | 19 - 24% | Acute Tox. 4; H312 |
| | UVCB substance, valid also these products indicators: Ethylbenzene and xylene mass reaction; CE N. : 90: 588-0; Nr. REACH: 01-2119486136-34/ 01- 2119488216-32; Mass reaction of ethylbenzene and m-wylene and | | | Acute Tox. 4; H332 | |
| | | | | Aquatic Chronic 3; H412 | |
| | | · · · | | Asp. Tox. 1; H304 | |
| | | | | Eye Irrit. 2; H319 | |
| | | Mass reaction of ethylbenzene and m-xylene and p- | | Flam. Liq. 3; H226 | |
| | | | xylene; CE N: 905-562-9; Nr. REACH: 01-2119488216- | | Skin Irrit. 2; H315 |
| | 32/01-2119555267-33. | | STOT RE 2; H373 | | |
| | | | | UVCB substance, for which the following identifiers are also valid: | |
| | | | | CE 905-588-0 REACH 01-2119486136 / 01-2119488216-32 Mass | |
| | | | | reaction of ethylbe | , |
| | | | | | CH 01-2119488216-32 / 01-21195555267-33 |
| | | | | Reaction mass of e | ethylbenzene and M-xylene and P-xylene |

| CAS | EINECS | Registration n. | Denomination | Content | Classification(*) |
|----------|-----------|------------------|-----------------------|------------------|-------------------------|
| 142-82-5 | 205-563-8 | 01-2119457603-38 | Heptane [and isomers] | 10 - 15% | Aquatic Acute 1; H400 |
| | | | | | Aquatic Chronic 1; H410 |
| | | | | | Asp. Tox. 1; H304 |
| | | | | | Flam. Liq. 2; H225 |
| | | | | | Skin Irrit. 2; H315 |
| | | | | | STOT SE 3; H336 |
| 67-63-0 | 200-661-7 | 01-2119457558-25 | 2-Propanol | 10 - 15% | Eye Irrit. 2; H319 |
| | | | | | Flam. Liq. 2; H225 |
| | | | | | STOT SE 3; H336 |
| | | | | LD50/dermal = 1 | |
| | | | | LD50/oral = 5840 | i mg/kg |
| 78-83-1 | 201-148-0 | 01-2119484609-23 | Isobutyl-alcohol | 5 - 6% | Eye Dam. 1; H318 |
| | | | 2-methylpropan-1-ol | | Flam. Liq. 3; H226 |
| | | | Isobutanol | | Skin Irrit. 2; H315 |
| | | | | | STOT SE 3; H335 |
| | | | | | STOT SE 3; H336 |
| 111-65-9 | 203-892-1 | 01-2119463939-19 | Octane [and isomers] | 2 - 2.5% | Aquatic Acute 1; H400 |
| | | | | | Aquatic Chronic 1; H410 |
| | | | | | Asp. Tox. 1; H304 |
| | | | | | Flam. Liq. 2; H225 |
| | | | | | Skin Irrit. 2; H315 |
| | | | | | STOT SE 3; H336 |

(*) For full text of the H- and EUH-phrases, see section 16.

SECTION 4: First aid measures

- **4.1. Description of first aid** If you feel unwell, seek medical advice. Take off immediately all contaminated measures: clothing.
 - Inhalation: Move affected person to fresh air. Seek medical advise.
 - **Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.
 - Skin contact: Wash immediately with large amounts of water. Remove contemned clothing. If irritation persists, seek medical advice.
 - Ingestion: Consult physician or poison control center immediately. Do not induce vomiting if not asked by the physician. Do not give anything orally without medical authorization if subject is unconscious.

4.2. Most important symptoms n. a. and effects, both acute and delayed:

4.3. Indication of any immediate n. a. medical attention and special treatment needed:

SECTION 5: Firefighting measures

5.1. Extinguishing media: Foam, dry chemical powder, carbon dioxide (CO2).

Extinguishing media which must Water Fire Extinguishers. not be used:

5.2. Special hazards arising from Vapours are heavier than air and can travel along ground to remote ignition sources. the substance or mixture:

5.3. Advice for firefighters: Independent apparatus for respiratory protection.

Recommendations: Do not use water jets. If possible, take away any dangerous containers. Do not stay in the direction of the bottoms of containers. Cool the containers with spray water from a safe position. Fire-fighters must wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

Stop the outpouring, if possible without hazard. Circumscribe the loss and remove it by absorbing on dry sand or other inert materials. Remove any possible source of ignition. Control vapours with spray water. Do not smoke. Avoid contact. If the product has contaminated soil or waters, inform public authorities.

6.1. Personal precautions, Wear gloves, protective clothing, safety goggles, boots, and protection for the protective equipment and emergency procedures: respiratory (breathing apparatus). Eliminate all unguarded flames and possible sources of ignition. Do not smoke. Move out of danger unprotected and unauthorized persons.

6.2. Environmental precautions: If the product has contaminated soil or waters, inform public authorities.

6.3. Methods and material for Stop the outpouring, if possible without hazard. Circumscribe the loss and remove it containment and cleaning up: by absorbing on dry sand or other inert materials.

6.4. Reference to other sections: Please also refer to Sections 8 and 13.

SECTION 7: Handling and storage

Avoid flames and radiant heating. This product must be stored, handled and used in hygienic and safe way, according to current regulations.

7.1. Precautions for safe General ventilation is required. Local ventilation is recommended. Do not breathe handling: vapour. Avoid skin and eye contact.

Advice on general occupational (a) not to eat, drink and smoke in work areas; hygiene: (b) to wash hands after use; and (c) to remove contaminated clothing and protective equipment before entering eating areas. 7.2. Conditions for safe storage, including any incompatibilities: Store the product in fresh, ventilated areas, separated from heating sources. Floor must not be flammable, must be impermeable and must prevent pouring to the outside. Electric plant must comply to current regulations. Storage class TRGS 510 (Germany): 3

7.3. Specific end use(s): Nothing special to note about specific uses.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters:

| Substance: | TLW | TLW-TWA | | TEL |
|--------------------------|-----|---------|-----|-------|
| | ppm | mg/m³ | ppm | mg/m³ |
| lsobutyl-alcohol | 50 | 152 | | |
| Heptane [and isomers] | 400 | 1640 | 500 | 2050 |
| Octane [and isomers] | 300 | 1401 | 375 | 2331 |
| Toluene | 50 | 192 | 100 | 384 |
| Xylene (benzene < 0.01%) | 50 | 221 | 100 | 442 |
| 2-Propanol | 200 | 492 | 400 | 983 |

| 2-Propanol: | AGW (Germany) TWA/8h: 500 mg/m3; 200 ppm – STEL/15 min: 1000 mg/m3; 400 ppm |
|---------------------------|--|
| | MAK (Germany) TWA/8h: 500 mg/m3; 200 ppm – STEL/15 min: 1000 mg/m3; 400 ppm |
| | VLA (Spain) TWA/8h: 500 mg/m3; 200 ppm – STEL/15 min: 1000 mg/m3; 400 ppm VLEP (France) STEL/15 min: 980 mg/m3; 400 ppm |
| | WEL (UK) TWA/8h: 999 mg/m3; 400 ppm – STEL/15 min: 1250 mg/m3; 500 ppm DNEL |
| | Long term systemic effects/consumers/oral: 26 mg/kg; inhalation: 89 mg/m3; dermal: 319 mg/kg – Workers/inhalation: 500 mg/m3; dermal: 888 mg/kg PNEC |
| | Microorganisms STP: 2251 mg/kg; soft water: 140.9 mg/kg; sediment (soft water): 552 mg/kg; sea water: 140.9 mg/kg; sediment (sea water): 552 mg/kg; terrestrial compartment: 28 mg/kg; nutritional chain (secondary poisoning): 160 mg/kg; water, intermittent release: 140.9 mg/kg |
| Xylene (benzene < 0.01%): | DNEL (EC) Local effects/Short term/Inhalatory (Workers): 442 mg/kg |
| | Sistemic effects/Long term: |
| | Dermal (Workers): 212 mg/kg; Inhalatory (Workers): 221 mg/m3; Dermal (People): 125 mg/kg; Inhalatory (People): 65.3 mg/m3; Oral (People):12.5 mg/kg PNEC STP (EC) Value: 6.58 mg/l |
| | PNEC (EC): Sea water: 0.32 mg/l - Occasional emission: 0.32 mg/l - Sediment (soft water): 12,46 mg/kg - Sediment (sea water): 12,46 mg/kg - Soil: 2.31 mg/kg - Soft water: 0.32 mg/l |
| | DNEL Consumer(local):Long term exposure/Inhalation=56.5 mg/m3; Short term exposure(acute)/Inhalation=226 mg/m3; Consumer (systemic): short term exposure(acute)/Inhalation=226 mg/m3; long term exposure(repeated)/dermal=226 mg/kg bw/day; long term exposure (repeated)/Inhalation=56.5 mg/m3; long term exposure(repeated)/oral=8.13 mg/kg bw/day; Worker (local); long term exposure(repeated)/Inhalation=192 mg/m3; short term exposure(acute)/Inhalation=384 mg/m3; Worker(systemic): short teerm exposure (acute)/Inhalation=384 mg/m3; Long term exposure(repeated)/Dermal= 384 mg/kg bw/day; Long term exposure(repeated)/Inhalation=192 mg/m3 PNEC: Wastewater treatment plant = 13.61 mg/l; Sediment (soft water) = 16.39 mg/kg; Sediment (sea water) = 16.39 mg/kg; Soil = 2.89 mg/kg; Soft water = 0.68 mg/l; Sea water = 0.68 mg/l; Occasional emission = 0.68 mg/l |
| Heptane [and isomers]: | TWA/8h: 2100 mg/m3 – 500 ppm MAK (Deu); 2085 mg/m3-500 ppm VLA (Esp); 1668 mg/m3-400 ppm VLEP (Fr); 2085 mg/m3-500 ppm WEL (GB); 2085 mg/m3- 500 ppm TLV (It); 2085 mg/m3-500 ppm OEL (EU) STEL/15 min: 2100 mg/m3 – 500 ppm MAK (Deu); 2085 mg/m3-500 ppm VLEP (Fr) |
| | DNEL Cronic systemic effects people/oral >149 mg/kg; people/inhalation >447 mg/m3; people/dermal >149 mg/kg workers/inhalation>2085 mg/m3; workers/dermal>300 mg/kg |

| [| |
|-----------------------------------|--|
| Isobutyl-alcohol: | TWA/8h: 310 mg/m3 – 100 ppm AGW (Deu); 310 mg/m3 – 100 ppm MAK (Deu); 154 mg/m3-50 ppm (VLA (Esp); 150 mg/m3-50 ppm VLEP (Fra); 154 mg/m3-50 ppm WEL (GB) |
| | STEL/15 min: 310 mg/m3 – 100 ppm AGW (Deu); 310 mg/m3 – 100 ppm MAK (Deu); 231 mg/m3-75 ppm WEL (GB) DNEL |
| | Consumer, cronic systemic effects, oral exposure > 25 mg/kg; local cronic effects, inhalation > 55 mg/m3. Workers, local cronic effects, inhalation > 310 mg/m3 PNEC Reference values for |
| | Microorganisms STP >10 mg/kg;soft water > 0,4 mg/kg; soft water sediments>1,52 mg/kg; sea water>0,04 mg/kg; sea water sediments>0,152 mg/kg; terrestrial compartment>0,0699;water, intermittent release > 11 mg/kg |
| Octane [and isomers]: | TWA/8h: 500 ppm MAK (Deu); 1420 mg/m3-300 ppm (VLA (Esp); 1450 mg/m3- 300 ppm WEL (GB). STEL/15min: 1000 mg/m3-400 ppm MAK (Deu) DNEL |
| | Cronic systemic effects, people, oral >699 mg/kg; inhalation >608 mg/m3; dermal > 699 mg/kg |
| | Cronic systemic effects, workers, dermal >773 mg/kg PNEC |
| | soft water: 0.00001 g/l; sea water: 0.00001 g/l; intermittent release (soft water): 0.00004 g/l; STP: 0.00016 g/l; sediment (soft water): 4 mg/kg; sediment (sea water): 4 mg/kg; soil: 1.6 mg/kg |
| 8.2. Exposure controls: | Ensure good ventilation and local exhaustion of the working area, to keep vapours concentration below the limits. |
| Appropriate engineering controls: | Electric plant must comply to current regulations about use of flammable products. |
| Eye / face protection: | Glasses with side protection ("cage" glasses) (EN166). Eye washing bottle with fresh water |
| Hand protection: | PVC or neoprene gloves. |
| Skin protection: | Use full protective clothing for chemicals (working-dress, apron). Protective shoes. |
| Respiratory protection: | If the product is sprayed or if there is an high vapours concentration, use masks with filter for organic vapours (brown A serie). |
| Thermal hazards: | n. a. |
| Environmental exposure controls: | n. a. |

SECTION 9: Physical and chemical properties

| 9.1 | Information | on basic | physical | and | chemical | properties: |
|-----|-------------|----------|----------|-----|------------|-------------|
| / | mormation | on basic | priysica | anu | circinical | properties. |

(a) Appearance: Coloured liquid.

- (a) Physical state: Liquid.
 - (b) Colour: n. a.
 - (c) Odour: As solvent.
- (c) Odour threshold: n.a.
- (d) Melting point: n.a.
 - Freezing point: n.a.
- (e) Boiling point or initial boiling > 35 °C point and boiling range:
 - (f) Flammability: n.a.
 - (g) Lower and upper explosion n.a.
 - limit:
 - (h) Flash point: $-4 \degree C$
 - (i) Auto-ignition temperature: n.a.

íchemco

| r | |
|--|-------------------------------|
| (j) Decomposition temperature: | n.a. |
| (k) pH: | n.a. |
| (I) Kinematic viscosity: | < 400 centiStokes mm2/s |
| (m) Solubility: | n.a. |
| (n) Partition coefficient n- octanol/water (log value): | |
| (o) Vapour pressure: | n.a. |
| (p) Density and/or relative density: | |
| (q) Relative vapour density: | n.a. |
| (r) Particle characteristics: | n.a. |
| COV: | 71.4 (direttiva 2010/75/CE) % |
| 9.2. Other information: | n. a. |

SECTION 10: Stability and reactivity

No decomposition if correctly used.

| 10.1. Reactivity: | There are no particular risks of reaction with other substances in normal conditions of use. TOLUENE: it degrades when exposed to sunlight. |
|--|--|
| 10.2. Chemical stability: | The material is stable in normal use and stocking conditions. |
| 10.3. Possibility of hazardous reactions: | Keep away from oxidants and strong acids. |
| 10.4. Conditions to avoid: | Keep away from ignition source, heat, direct light. |
| 10.5. Incompatible materials: | n. a. |
| 10.6. Hazardous decomposition products: | Combustion can produce carbon oxides, toxic gases and fumes. |

SECTION 11: Toxicological information

| | In the absence of experimental toxicological data on the mixture, the potential health risks of the product have been evaluated considering the properties of the different composing substances. The concentration of each dangerous substance mentioned in section 3 is thus considered in assessing the toxicological effects resulting from exposure to the product. |
|-----------------|--|
| | The product causes serious damage to eyes and may cause corneal opacity, iris lesions, irreversible eye coloration. Acute effects: contact with skin may cause irritation, erythema, edema, dryness and chapped skin. Inhalation of vapors may cause moderate irritation of the upper respiratory tract. Swallowing may cause health problems including stomach pain and sting, nausea and vomiting. The product contains highly volatile substances, which may cause serious depression of the central nervous system and effects such as drowsiness, dizziness, loss of reflexes, narcosis. |
| acute toxicity: | IsobutyI-alcohol LD50/oral/rat > 2830 mg/kg LD50/dermal/rabbit > 2000 mg/kg LC50/inhalation/rat: about 24.6 mg/l (4h) Heptane [and isomers] LD50/oral/rat>5000 mg/kg bw LC50/inhalation/rat/4h > 73.5 mg/l LD50/dermal/rabbit > 2000 mg/kg bw |

| | Octane [and isomers] |
|-------------------------|---|
| | LD50/oral/rat> 5000 mg/kg bw |
| | LD50/dermal/rabbit > 2000 mg/kg bw |
| | Toluene |
| | LD50/oral/rat(male): 5580 mg/kg dw (24h) |
| | LD50/dermal/rabbit >5000 mg/kg dw |
| | LC50/inhalation/rat: 28.1 mg/l (4h) OECD 403 |
| | Xylene (benzene < 0.01%) |
| | LD50/oral/mouse (male): 5627 mg/kg |
| | LD50/dermal/rabbit > 5000 mg/kg |
| | LC50/inhalation/rat (male): 6700 ppm (4 h) |
| | 2-Propanol |
| | LD50/oral/rat = 5840 mg/kg bw |
| | LD50/dermal/rabbit = 16.4 ml/kg bw |
| | LC50/inhalation/rat > 10000 ppm (6h) |
| irritation: | Isobutyl-alcohol |
| | It causes serious eye damage. |
| | It causes skin irritation. |
| | Irritating to respiratory system. |
| | Octane [and isomers] |
| | Skin irritation test on rabbit: irritating |
| | Eye irritation test on rabbit: not irritating |
| | Toluene |
| | Skin irritation (OECD404): irritating (tested on rabbit) |
| | Xylene (benzene < 0.01%) It causes serious eye irritation. |
| | It causes skin irritation. |
| | 2-Propanol |
| | It causes serious eye irritation. |
| corrosivity: | |
| | Heptane [and isomers] |
| | Guinea Pig Maximisation test (OECD 406): not sensitizing |
| | Octane [and isomers] |
| | OECD406 test on Guinea pig: not sensitising |
| | Toluene |
| | Non-sensitizing. |
| | Xylene (benzene < 0.01%) |
| | No sensitizing effect. |
| repeated dose toxicity: | - |
| | Subacute oral toxicity |
| | NOAEL/oral/rat > 1450 mg/kg bw day |
| | Subacute inhalatory toxicity |
| | NOAEL/inhalation/rat \geq 7,5 mg/l |
| | Toluene |
| | May cause drowsiness or dizziness. May cause damage to organs through prolonged |
| | or repeated exposure. |
| | Subacute oral toxicity |
| | NOAEL/oral/mouse: 625 mg/kg bw/day |
| | Subacute inhalatory toxicity |
| | NOAEL/inhalation/rat: 1131 mg/m3 (central nervous sysyem) OECD 453 |
| | Xylene (benzene < 0.01%) |
| | It can cause respiratory irritation. |
| | Subacute oral toxicity NOAEL/oral/rat: 250 mg/kg bw/day |
| carcinogenicity: | |
| | BMD10/rat: 1200 ppm (OECD453) |
| | 2-Propanol |
| | NOAEC (carcinogenicity) : 5000 ppm (rat) |
| mutagenicity: | n. a. |

| toxicity for reproduction: | Toluene |
|---|---|
| | Suspected of damaging the unborn child |
| | Essay on reproductive toxicity at 1 generation |
| | NOAEL/ratto: 2000 ppm |
| | Xylene (benzene < 0.01%) |
| | Essay on reproductive toxicity at one generation/rat \geq 500 ppm |
| | 2-Propanol |
| | NOAEL (C): 480 mg/kg bw/day (rabbit) |
| Information on likely routes of exposure: | n. a. |
| Symptoms related to the physical, chemical and toxicological characteristics: | n. a. |
| Delayed and immediate effects as well as chronic effects from short and long-term exposure: | n. a. |
| Interactive effects: | n. a. |
| | The product does not contain substances having properties of interference with the ndocrine system in a concentration $> = 0.1\%$. |

SECTION 12: Ecological information

Prevent contamination of soil and surface waters. Avoid dispersion of material into soil, drains or surface waters. Avoid dispersion of residues into drains.

| 12.1. Toxicity: | Isobutyl-alcohol |
|-----------------------|---|
| | LC50/Pimephales promelas = 1430 mg/l (96h) |
| | EC50/Daphnia pulex = 1100 mg/l (48h) |
| | EC50/pseudokirchneriella subcapitata = 1799 mg/l (72h) |
| | Octane [and isomers] |
| | NOELR/Oncorhynchus mykiss/28 d = 0.579 mg/l |
| | EL50/Mytilus edulis/105 min = 0.12 mg/l |
| | EC50/Mytilus edilis/105 min = 24.6 mg/kg |
| | EL50/pseudokirchneriella subcapitata/72h = 2084 mg/l |
| | Toluene |
| | LC50/Oncorhynchus kisutch: 5.5 mg/l (96h) |
| | EC50/Ceriodaphnia dubia: 3.78 mg/l (2 days) |
| | EC50/Chlorella vulgaris: 134 mg/l (3h) |
| | Xylene (benzene < 0.01%) |
| | LC50/Oncorhynchus mykiss: 2.6 mg/l (96 h) |
| | NOEC/Oncorhynchus mykiss > 1.3 mg/l (56 d) |
| | IC50/Daphnia magna: 1 mg/l (24 h) |
| | NOEC/Daphnia magna: 1.57 mg/l (21 d) |
| | EC0/Pseudokirchneriella subcapitata: 0.44 mg/l (73 h) |
| | Er50/Pseudokirchnerriella subcapitata: 4.36 mg/l (73 h) |
| | 2-Propanol |
| | LC50 (Pimephales promelas) : 9640 mg/l (96h) |
| | EC50 (Daphnia magna): >10000 mg/l (24h) |
| | EC50 (Scenedesmus quadricauda) : 1800 mg/l (7d) |
| 12.2. Persistence and | |
| degradability: | Biodegradation: 90% 14 d |
| | Heptane [and isomers] |
| | LL50/Oncorhynchus Mykiss/96 h = 5378 mg/l |
| | NOEL/Oncorhynchus Mykiss/28 d = 1284 mg/l |
| | EC50/Daphnia magna/48h = 1.5 mg/l |
| | EL50/Daphnia magna/48 h = 3.9 mg/l |
| | EL50/Daphnia magna/21d = 1.6 mg/l (OECD 211) |
| | EL50/Tetrahymena pyriformis/48h = 22.6 mg/l |
| | EL50/Pseudokirchneriella subcapitata/72h = 4.3 mg/l |
| | |

íchemco

| r | |
|----------------------------------|--|
| 12.3. Bioaccumulative potential: | Toluene Readily biodegradable Xylene (benzene < 0.01%) Biodegradation > 70% (28 d) 2-Propanol Easily biodegradable BOD = 53% (Regulation (EC) No 440/2008, Annex C.5) Isobutyl-alcohol Partition coefficient: n-octanol/water = 1 Heptane [and isomers] Log Kow = 3,78 BCF = 552 (calculated) 2-Propanol |
| | Log Pow = 0.05 n. a. Based on available data, the product does not contain any PBT or vPvB substances in quantity higher than 0.1%. |
| 12.6. Endocrine disrupting | Xylene (benzene < 0.01%) The substance does not meet PBT and vPvB criteria. The product does not contain substances having properties of interference with the endocrine system in a concentration> = 0.1%. |
| 12.7. Other adverse effects: | The product does not contain substances listed in Regulation (EC) 1005/2009 (substances that deplete the ozone layer) |

SECTION 13: Disposal considerations

13.1. Waste treatment methods: Recover if possible. This material should be incinerated in authorized plants or under controlled conditions. Proceed in conformity with local and national regulation.

SECTION 14: Transport information

| . , | e with ADR for road, RID for rail, IMDG for sea and ICAO for air transport. 1210 - PRINTING INK, flammable (vapour pressure at 50 °C not more than 110 kPa) |
|---|---|
| 14.2. UN proper shipping name: | PRINTING INK |
| 14.3. Transport hazard class(es): | 3 - Flammable liquids |
| 14.4. Packing group: | II - Substances presenting medium danger |
| Classification Code (ADR 2.2): | F1 - Flammable liquids having a flash-point of or below 60 °C |
| | MP19 - May - in quantities not exceeding 5 litres per inner packaging - be packed together in a combination packaging conforming to 6.1.4.21: - with goods of the same class covered by other classification codes or with goods of other classes, when mixed packing is also permitted for these; or - with goods which are not subject to the requirements of ADR, provided they do not react dangerously with one another. |
| Transport category (1.1.3.6): | 2 |
| Hazard identification No. (5.3.2.3): | 33 - highly flammable liquid (flash-point below 23 °C) |
| 14.5. Environmental hazards: | n. a. |
| Marine pollutant: | Heptane [and isomers], Octane [and isomers] |
| 14.6. Special precautions for user: | n. a. |

| 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: | |
|--|-----------------|
| IMDG Page: | 3272-1 |
| IMDG EMS: | F-E S-D |
| IMDG MFAG: | 311 |
| Danger labels: | 33 3 1210 |

SECTION 15: Regulatory information

Information contained in this SDS is based on the present state of our knowledge and on Regulation (EC) No 1907/2006 of the European Parliament and subsequent updates.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture: Restrictions related to the product: 3, 40, 75 Restrictions related to the substances contained: Restriction 48

Directive 2012/18/EU: P5c, E1

WGK = 2

15.2. Chemical safety Not applicable assessment:

SECTION 16: Other information

Classification and procedure used (calculation method) Flam Liq 2 225 Repr 2 H361d STOT RE2 H373 Eye Dam 1 H318 Skin Irr 2 H315 STOT SE3 H336 Aqua Acute 1 H400

Modified sections: 1,2,11,12,16

STIR ACCURATELY BEFORE USE Full text of H phrases listed in Section 3: H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. 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. H361d Suspected of damaging the unborn child. H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H410 Very toxic to aquatic life with long lasting effects.

Glossary / List of acronyms

(STOT) RE - Repeated Exposure (STOT) SE - Single Exposure ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 CMR - Carcinogen, Mutagen, or Reproductive Toxicant **DNEL** - Derived No Effect Level ECHA - European Chemicals Agency **EINECS - European Inventory of Existing Commercial Substances** GHS - Globally Harmonized System IATA - International Air Transport Association ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air IMDG - International Maritime Dangerous Goods Kow - octanol-water partition coefficient PBT - Persistent, Bioaccumulative and Toxic substance REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail SDS - Safety data sheet STOT - Specific Target Organ Toxicity SVHC - Substances of Very High Concern UFI - Unique Formula Identifier vPvB - Very Persistent and Very Bioaccumulative Users' working conditions are beyond our knowledge and control. The product is not to be used for other

Users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties.

The information in this Safety Data Sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) regulations.