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P-Ink 2.0 Art. Nr. 1924340000
Version 1.0

Revision date: 07/24/2015

1. Identification

Product name P-Ink 2.0 Art. Nr. 1924340000
PLOTTER PEN Art. Nr. 1920640000, 1920650000, 1005710000, 1011450000

Synonyms -

CAS # See section 3

Product code -

Product use Ink, paint.

Manufacturer/Supplier

Supplier(Manufacturer): Weidmüller Interface GmbH & Co. KG

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2. Hazard(s) identification

GHS classification

Physical hazards	Flammable liquids	Category 2
Health hazards	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity after single exposure	Category 3
Environmental hazards	Hazardous to the aquatic environment(ACUTE)	Category 2
	Hazardous to the aquatic environment(CHRONIC)	Category 2

GHS label elements

Hazard Pictograms



Signal word

Danger

Hazard statement

Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.

	Use only non-sparking tools.
	Take precautionary measures against static discharge.
	Avoid breathing dust/fume/gas/mist/vapors/spray.
	Wash thoroughly after handling.
	Use only outdoors or in a well-ventilated area.
	Avoid release to the environment.
	Wear protective gloves/protective clothing/eye protection/face protection.
Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	If inhaled: Remove person to fresh air and keep comfortable for breathing.
	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Call a poison center /doctor if you feel unwell.
	In case of fire: Use water jet spray / alcohol resistant foam / CO ₂ / dry extinguisher for extinction.
	If eye irritation persists: Get medical advice/attention.
	Collect spillage.
Storage	Store in a well-ventilated place. Keep cool. Keep container tightly closed.
	Store locked up.
Disposal	Dispose of contents/container in corroding with local regulation.

3. Composition / information on ingredients

Components	CAS#	Percent
2,6-dimethylheptan-4-one	108-83-8	30-40%
butanone	78-93-3	30-40%
C.I. Solvent Black 29	117527-94-3	5-10%

10-35 percent of the mixture consists of component (s) of unknown toxicity.

4. First-aid Measures

First aid procedures

Eye contact	Remove contact lenses. Wash thoroughly for several minutes using copious water. Seek medical help if necessary.
Skin contact	Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.
Inhalation	Remove person from danger area. Supply person with fresh air and consult doctor according to symptoms. If the person is unconscious, place in a stable side position and consult a doctor.
Ingestion	Rinse the mouth thoroughly with water. Give copious water to drink - consult doctor immediately.
Notes to physician	Treat symptoms.

5. Fire-fighting measures

Flammable properties

Highly flammable.

Extinguishing media

Suitable extinguishing media

Water jet spray / alcohol resistant foam / CO₂ / dry extinguisher.

Unsuitable extinguishing media

Not available.

Firefighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire, full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

Hazardous combustion products

Oxides of carbon, oxides of nitrogen, toxic gases, explosive vapor/air mixture, dangerous vapors heavier than air.

6. Accidental release measures

Personal precautions

Keep unprotected persons away. Remove possible causes of ignition - do not smoke. Ensure sufficient supply of air. Avoid contact with eyes or skin. If applicable, caution - risk of slipping. For personal protection see section 8.

Environmental precautions

If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities.

Methods for cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

7. Handling and storage

Handling

Ensure good ventilation. Avoid aerosol formation. Avoid inhalation of the vapors. If applicable, suction measures at the workstation or on the processing machine necessary. Avoid contact with eyes or skin. Keep away from sources of ignition - Do not smoke. Take precautions against electrostatic charges. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Also seal emptied tanks and tanks in the process after they have been used. Observe directions on label and instructions for use. Use working methods according to operating instructions. For precautions see section 2.2.

Storage

Keep out of access to unauthorized individuals. Store product closed and only in original packing. Not to be stored in gangways or stair wells. Observe special storage conditions. Do not store with flammable or self-igniting materials. Protect from direct sunlight and warming. Store in a well-ventilated place. Store cool.

8. Exposure controls / personal protection

Control parameters:

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA:

Source	Ingredient	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs)	2,6-dimethylheptan-4-one	290 mg/m ³ / 50 ppm	Not Available	Not Available	Not Available

- Table Z1					
US ACGIH Threshold Limit Values (TLV)	2,6-dimethylheptan-4-one	25 ppm	Not Available	Not Available	TLV® Basis: Eye & URT irr
US NIOSH Recommended Exposure Limits (RELs)	2,6-dimethylheptan-4-one	150 mg/m ³ / 25 ppm	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	butanone	590 mg/m ³ / 200 ppm	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	butanone	200 ppm	300 ppm	Not Available	TLV® Basis: URT irr; CNS & PNS impair; BEI
US NIOSH Recommended Exposure Limits (RELs)	butanone	590 mg/m ³ / 200 ppm	885 mg/m ³ / 300 ppm	Not Available	Not Available

EMERGENCY LIMITS:

Ingredient	TEEL-1	TEEL-2	TEEL-3
2,6-dimethylheptan-4-one	25 ppm	25 ppm	2000 ppm
Ingredient	Original IDLH	Revised IDLH	
2,6-dimethylheptan-4-one	2,000 ppm	500 ppm	
butanone	3,000 ppm	3,000 [Unch] ppm	
C.I. Solvent Black 29	Not Available	Not Available	

Exposure controls:

Appropriate engineering controls:

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Individual protection measures, such as personal protective equipment:

Eye / face protection

Tight fitting protective goggles with side protection (EN 166).

Skin protection

Chemical resistant protective gloves (EN 374). Protective gloves in butyl rubber (EN 374). Minimum layer thickness in mm: 0.5. Permeation time (penetration time) in minutes: >240. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended. Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection

If OES or MEL is exceeded. Gas mask filter A (EN 14387), code color brown. Observe wearing time limitations for respiratory protection equipment.

General hygiene considerations

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

9. Physical and chemical properties

Appearance

Physical state	Liquid
Form	Liquid
Color	According to specification
Odor	Characteristic
Odor threshold	Not available
pH	Not available
Vapor pressure	<1100 hPa (50°C)
Melting point/Freezing point	Not available
initial boiling point and boiling range	>70 °C
Flash point	<21 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Explosion limits	Not available
Vapor density	Not available
Relative density	Not available
Solubility (water)	Partially
Partition coefficient	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Specific gravity	Not available
Density	0.8-1.2 g/cm ³ (20°C)
Flammability limits in air, upper, %by volume	Not available
Flammability limits in air, lower, % by volume	Not available
VOC	Not available
Percent volatile	Not available
Explosive properties	Product is not explosive. When using: development of explosive vapour/air mixture possible.
Oxidising properties	No
Other data	
Viscosity	12-80 s (DIN 53211 (4 mm))
Molecular weight:	Not available
Molecular formula:	Not available
Solvents content	Not available

10. Stability and reactivity

Reactivity	The product has not been tested.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Incompatible materials. Heating, open flame, ignition sources.
Incompatible materials	Avoid contact with strong alkalis, strong oxidizing agents, strong acids.
Hazardous decomposition products	Oxides of carbon, oxides of nitrogen, toxic gases, explosive vapor/air mixture, dangerous vapors heavier than air.

Possibility of hazardous reactions

No dangerous reactions are known.

11. Toxicological information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

2,6-dimethylheptan-4-one (CAS#108-83-8)

LD50(Oral, Rat): 5750mg/kg

LD50(Dermal, Rabbit): 16000 mg/kg

LC50(Inhalation, Rat): Not available

Butanone (CAS#78-93-3)

LD50(Oral, Rat): >2600mg/kg

LD50(Dermal, Rabbit): 5000mg/kg

LC50(Inhalation, Rat): 34.5mg/l/4h

Skin corrosion/Irritation: Not classified

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: May cause respiratory irritation. May cause drowsiness or dizziness.

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

12. Ecological information

Toxicity:

2,6-dimethylheptan-4-one (CAS#108-83-8)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	>100mg/l	96h	Fish	OECD 203	N/A	N/A
EC50	>100mg/l	48h	Daphnia	OECD 202	N/A	N/A
LC50	N/A	72h	Algae	OECD 201	N/A	N/A

Butanone (CAS#78-93-3)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	1690 mg/l	96h	Fish	OECD 203	N/A	N/A
EC50	308 mg/l	48h	Daphnia	OECD 202	N/A	N/A
LC50	1972 mg/l	72h	Algae	OECD 201	N/A	N/A

2,6-dimethylheptan-4-one (CAS#108-83-8): Readily biodegradable.

Persistence and degradability:

Butanone (CAS#78-93-3): Readily biodegradable.

Bioaccumulative potential:

Butanone (CAS#78-93-3): Bioaccumulation is unlikely (Log Pow < 1).

Mobility in soil:

The product is partially soluble in water.

Results of PBT&vPvB assessment:

The mixture does not contain any PBT&vPvB substance.

Other adverse effects:

Toxic to aquatic life with long lasting effects.

13. Disposal considerations

Disposal instructions

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

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Basic shipping requirements:

UN number	UN1263
Proper shipping name	PAINT RELATED MATERIAL
Hazard class	3
Packing group	II
Environmental hazards	Yes

IATA

UN number	UN1263
UN proper shipping name	PAINT RELATED MATERIAL
Transport hazard class(es)	3
Packing group	II
Environmental hazards	-

IMDG

UN number	UN1263
UN proper shipping name	PAINT RELATED MATERIAL
Transport hazard class(es)	3
Packing group	II
Environmental hazards	Yes

15. Regulatory information

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

2,6-dimethylheptan-4-one (108-83-8) is found on the following regulatory lists	<p>"US - Alaska Limits for Air Contaminants" List.</p> <p>"US - Hawaii Air Contaminant Limits" List.</p> <p>"US - Idaho - Limits for Air Contaminants" List.</p> <p>" US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants" List.</p> <p>"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory" List.</p>
Butanone (78-93-3) is found on the following regulatory lists	<p>"US - Alaska Limits for Air Contaminants" List.</p> <p>"US - Hawaii Air Contaminant Limits" List.</p> <p>"US - Idaho - Limits for Air Contaminants" List.</p> <p>"US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values" List.</p> <p>" US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants" List.</p>

	"US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants" List. "US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory" List.
C.I. Solvent Black 29(117527-94-3) is found on the following regulatory lists	"US EPCRA Section 313 Chemical List" List. "US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory" List.

16. Other information, including date of preparation or last revision

HMIS® ratings

Health: 2
 Flammability: 3
 Physical hazard: 0

NFPA ratings

Health: 2
 Flammability: 3
 Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

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