

97.010 | Blackboard Marker White

MSDS | Chalkboard Marker

Section 1: Identification of the Substance and the Company

Product name	97.010 Blackboard Marker White
Relevant identified uses	Drawing
Company	iSee2, IZ Langevoorde, Groendreef 35, 9880 Aalter, Belgium
Emergency telephone	+32 9 216 67 00

Section 2: Composition / Information of Ingredients

Material Composition	Substances in preparations/mixtures EC Classification Regulation No. 1272/2008 (CLP)
Additional information	For full text of H/P phrases see section 16.

Chemical identity of the substances	% W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Ethanol	2.0 - 4.0	64-17-5	200-578-6	None assigned.	Flam. Liq. 2: H225
Carbon Black (in four colours only) Black Brown Slate Grey Burnt Sienna	9.0 - 10 ≤ 0.1 < 0.5 ≤ 0.1	1333-86-4	215-609-9	None assigned.	Not Classified.
Titanium dioxide	8.0 - 15.5	13463-67-7	236-675-5	None assigned.	Not Classified.
Water	70 - 90	7732-18-5	231-791-2	None assigned.	Not Classified.
1,2-benzisothiazol-3(2H)-one	< 0.005	2634-33-5	220-120-9	None assigned.	Acute Tox. 4: H302 Skin Irrit. 2: H315 Skin Sens.1: H317 Eye Dam. 1: H318 Aquatic Acute 1: H400
2-octyl-2H-isothiazol-3-one	< 0.002	26530-20-1	247-761-7	None assigned.	Acute Tox. 4: H302 Acute Tox. 3: H311 Acute Tox. 3: H331 Skin Corr. 1B: H314 Skin Sens.1: H317 Aquatic Acute 1: H400 Aquatic Chronic 1: H410

Section 3: Hazards Identification

Regulation (EC) No. 1272/2008 (CLP)	Not classified as hazardous.
Other hazards	Contains 1,2-benzisothiazol-3(2H)-one and 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.

97.010 | Blackboard Marker White

MSDS | Chalkboard Marker

Section 4: First Aid Measures

Inhalation	Remove the victim and move to an area with fresh air. If feeling bad, consult a physician.
Skin contact	Put off the all polluted clothes immediately. Clean with the proper temp. and slow flowing water for over 15 minutes. If the skin irritates, consult a physician. Before re-use, put off the clothes, clean it up and remove the pollution.
Eye contact	Put off the contact lenses if possible, and continue to clean. Clean the eyes carefully for a few minutes. If cleaning the eyes is not enough, it may cause irreversible eye damage. When irritation to the eyes continue, consult a physician.
Ingestion	Consult a physician, if the victim feels bad. Rinse the mouth out. Do not have the victim vomit.
Expected acute symptoms and late symptoms	Sialorrhoea, face flash, cough, dizzy, lethargy, headache, sore and throat, deliquim animi barf, vomition.
Indication of any immediate medical attention and special treatment needed	The rescuer must wear proper protective equipment according to the situation. Symptoms will appear later, so that if the patient is exposed excessively, it needs medical follow up.

Section 5: Accidental Release Measures

Personal precaution	Keep the proper distance in all directions from the leakage area immediately. No unauthorized entry. If there is a leakage but there does not occur a fire, wear the protection wear. Stay in the wind. Move away from the low ground.
Protective equipment	The worker must wear proper protection (refer to section 8) to not get the paint on skin or into eyes. Do not touch the leakage material or walk into it.
Emergency procedures	Ventilate before entering the sealed area.
Environmental precautions	Prevent from influx into the drain ditch, sewer, basement and closed area. Take notice not to affect the environment by discharge the paint into the river.
Methods and materials for containment and cleaning-up	Collect Neutralization: In small quantity case, absorb the leakage material by dry sand and non-flammable material or collect it in the sealed type container then dispose it. In small quantity case, collect the absorbed material and clean with anti-static tools. In large quantity case, yard the leakage material by mound to prevent flow out and lead it into safety area then collect it. In large quantity case, spray water to lower the steam temperature but it may not inhibit combustion at the sealed area. Containment or depurant and equipment: If it is not dangerous,

97.010 | Blackboard Marker White

MSDS | Chalkboard Marker

stop the leakage. Ground all equipment which need for handling the leakage of the material. Use steam retard foam to lower the steam concentration.

Precaution of Second Disaster: Clear away all ignition source immediately (Do not smoke near, forbid fireworks and flames). In case of generating large steam, retard it by mist spray.

Section 6: Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: Small fire / Carbon dioxide, dry chemical extinguishing media, water spray, alcoholic resistance foam. Water spray, mist water, alcoholic resistance form.

Unsuitable extinguishing media: cylindrical pouring water.

Special hazards arising from the substance or mixture

The irritative, toxicity and corrosive gas is generated by fire. The container will burst by heating. If it is not dangerous, move the container from the fire area. If it is impossible to move, cool the container by spraying water. After extinguishing a fire, cool the container completely by large quantities of water.

Protection of firefighters

For fighting fire, wear compressed air open-circuit SBCA and protect equipment for chemical. Fight a fire from up wind.

Section 7: Handling & Storage

Handling

Activate the equipment measure described in the section 8 and wear protector. Activate the local exhaust ventilation and whole ventilation described on section 8. Prevent leakage of the liquid and steam if possible. This product irritates the eyes so take care not to get it into the eyes. This product may cause sleep or vertigo, irritate the apparatus respiratorius and damage organ parts so that do not touch, inhale and swallow it. Do not drop, shock or drag the container. Clean hands well after use this product. Use this product outside or well ventilated area only. Avoid touching, refer to the section 10. Keep away from high temperature materials, sparks and fire, and avoid touching oxidizer and organic peroxide.

Storage

Keep the container airtight and stock it in well ventilated place. Stock in a ventilated and cool place. Keep away from oxidant. Keep away from direct sunlight and fire. The inventory location must be fire-proof construction and the floor must be impermeable to prevents that it goes through the basement and spills outside. Lock up the container.

97.010 | Blackboard Marker White

MSDS | Chalkboard Marker

Section 8: Exposure Controls/Personal Protection

Control parameters Occupational exposure limits:

Name	ACGIH (TLV)
Ethanol	1000ppm
Carbon Black	3.5 mg/m ³
Titanium dioxide	10mg/m ³
1,2-benzisothiazol-3(2H)-one	-
2-octyl-2H-isothiazol-3-one	-

Appropriate engineering controls	Install the eye washing devices and safety shower where handle or stock this product.
Individual protection measures (PPE)	Wear proper respiratory protect equipment such as gas mask for organic gas (if high concentration, wear air-supplied respirator). Check the protect equipment regularly with check sheet.
Eye/face protection	Wear the eye protector designed by the manufacturer.
Skin protection	Wear the gloves designed by the manufacturer. Wear protection boots, oil resistant apron (impermeable and anti-static) and protect clothes (anti-static) designed by the manufacturer. Clean hands well after use of this product.

Section 9: Physical and chemical properties

Appearance	Liquid
Odour	Odourless
Initial boiling point and boiling range	± 100°C
Specific gravity (20°C)	1.08 - 1.25

Section 10: Stability & Reactivity

Chemical stability	Under usual storage conditions, this product is stable.
Hazardous decomposition product	Generates harmful gas such as carbon monoxide and carbon dioxide.

Section 11: Toxicological Information

Name	IARC	Other
Ethanol	1	LD50(oral, rat) 6200-15000mg/kg
Carbon Black	2B	LD50(oral, rat) 15400mg/kg
Titanium Black	2B	LD50(oral, rat) >10000mg/kg
1,2-benzisothiazol-3(2H)-one	-	LD50(oral, rat) 900 - 1200mg/kg
2-octyl-2H-isothiazol-3-one	-	LD50(oral, rat) 355 - 794mg/kg

97.010 | Blackboard Marker White MSDS | Chalkboard Marker

Section 12: Ecological Information

Environmental effects Not applicable

Section 13: Disposal Considerations

Waste treatment methods Residue Waste: For dispose, follow the related regulation and standard of local governments. Ask the licensed industrial waste disposal company or local governments.

For Burning: Spray the incinerator with waste liquid directly or mix with flammable solvent in small quantity to burn. Activated sludge process.

Additional Information Polluted container and package: Clean the container and recycle or treat it in accordance with the related regulation or local governments. If dispose the container, remove the content completely.

Section 14: Transport Information

International transport regulations No special precautions required

ADR Not applicable

UN Number Not applicable

Special precaution for user See section 3

Additional information Common transport: Please follow the section 7. Check if there are no leakage from container and take cargo without falling, dropping and damage.

Land transport: Follow the Industrial Safety and Health Law, Poisonous Material Control Law.

Marine transport: Please follow the Law for Safety of Vessel.

Air Transportation: Please follow the Aviation Law and regulation of ICAO.

Section 15: Regulatory Information

Autorisations and/or restrictions on use Not applicable

CoRAP Substance Evaluation Not applicable

Section 16: Other Information

LEGEND

TLV Threshold Limit Value

DNEL Derived No Effect Level H319

PNEC PNEC Predicted No Effect Concentration

97.010 | Blackboard Marker White

MSDS | Chalkboard Marker

PBT	Persistent, Bioaccumulative and Toxic
vPvB	Very Persistent and very Bio-accumulative
Flam. Liq. 2	Flammable Liquid Category 2
Acute Tox.3	Acute Toxicity - Oral Category 3
Acute Tox.4	Acute Toxicity - Oral Category 4
Skin Corr.1B	Skin Corrosion / Skin Irritation Category 1B
Skin Irrit.2	Skin Corrosion / Skin Irritation Category 2
Eye Dam.1	Eye Damage / Eye Irritation Category 1
Skin Sens.1	Sensitization - Skin Category 1
Aquatic Acute 1	Hazardous to the Aquatic Environment - Acute Hazard 1
Aquatic Chronic 1	Hazardous to the Aquatic Environment - Chronic Hazard 1
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Notes:

This datasheet has been produced to advise our customers regarding possible hazards with iSee2 Blackboard Markers in recognition of our responsibility to the Health and Safety at Work Act. The use of our products does not entail any special hazard if they are handled according to normal good safety practices. Nevertheless, we would draw your attention to some specific information concerning their safe use. This information should not be construed as indicative of any new or unusual hazards that we have discovered but rather that you should be properly informed of their characteristics and to discharge our duty as outlined in the act.