

Safety Data Sheet (SDS) Report

Applicant: Issue Date: 2016-05-13

Sample Description:

The sample information was submitted and identified on client's behalf to be:

Product Name : Permanent Markers

Physical State : Liquid

Data Received : Apr 20, 2016

Last Information Date : May 13,2016

Data Reviewed : May 13, 2016

Service Requested:

Based on the information provided by the applicant, the Safety Data Sheet (SDS) was generated in accordance with requirements of Regulation (EC) No1907/2006, Regulation (EC) No 2015/830, Regulation (EC) No 1272/2008, for details please refer to attached pages.

Authorized By:

On Behalf Of Regulatory Affairs in Intertek Testing Services Ltd., Shanghai

Anna Wang Regulatory Consultant This report shall not be reproduced except in full, without the written approval of the laboratory.

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Version No: 1.0

Safety Data Sheet (Conforms to Regulation (EC) No 1907/2006 and Regulation (EC) No 2015/830)

Project number: SHAH00667873

Issue Date:13/05/2016

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product Identifier	
Product name	Permanent Markers
Synonyms	Not Available
Other means of identification	Not Available
1.2. Relevant identified use	es of the substance or mixture and uses advised against
Relevant identified uses	writing
Uses advised against	Not Applicable
1.3. Details of the supplier	of the safety data sheet
Registered company name	
Address	
Telephone	
Emergency telephone	
Email	
Importer name	
Address	
Telephone	
Email	
1.4. Emergency telephone	number
Association / Organisation	
Emergency telephone numbers	
Other emergency telephone numbers	
SECTION 2 HAZARDS IDE	ENTIFICATION
2.1. Classification of the su	
Not considered a hazardous mixture	according to Reg. (EC) No 1272/2008 and their amendments. Not classified as Dangerous Goods for transport purposes.
Classification according to regulation (EC) No 1272/2008 [CLP]	Not Applicable
2.2. Label elements	
CLP label elements	Not Applicable
SIGNAL WORD	NOTAPPLICABLE
Hazard statement(s) Not Applicable	

Supplementary statement(s)

Not Applicable

CLP classification (additional)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

2.3. Other hazards

Cumulative effects may result following exposure*.

REACh - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

See 'Composition on ingredients' in Section 3.2

3.2. Mixtures

1. CAS No 2. EC No 3. Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP]
1.64-17-5 2.200-578-6 3.603-002-00-5 4.Not Available	80	ethanol	Flammable Liquid Category 2; H225
1.11099-03-9 2.Not Available 3.Not Available 4.Not Available	0-20	C.I. Solvent Black 5	Not Applicable
1.12217-80-0 2.235-402-7 3.Not Available 4.Not Available	0-20	c.i. disperse blue 60	Not Applicable
1.2611-82-7 2.220-036-2 3.Not Available 4.Not Available	2-3	c.i. acid red 18	Not Applicable

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

2000p	
General	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If furnes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

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

Treat symptomatically.

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Permanent Markers

For acute or short term repeated exposures to ethanol:

- Acute ingestion in non-tolerant patients usually responds to supportive care with special attention to prevention of aspiration, replacement of fluid and correction of nutritional deficiencies (magnesium, thiamine pyridoxine, Vitamins C and K).
- ▶ Give 50% dextrose (50-100 ml) IV to obtunded patients following blood draw for glucose determination.
- Comatose patients should be treated with initial attention to airway, breathing, circulation and drugs of immediate importance (glucose, thiamine).
- Decontamination is probably unnecessary more than 1 hour after a single observed ingestion. Cathartics and charcoal may be given but are probably not effective in single ingestions.
- Fructose administration is contra-indicated due to side effects.

SECTION 5 FIREFIGHTING MEASURES

5.1. Extinguishing media

- Alcohol stable foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

5.2. Special hazards arising from the substrate or mixture

Fire	Incompatibility
------	-----------------

▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

5.3. Advice for firefighters

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area.
Fire/Explosion Hazard	WARNING: In use may form flammable/ explosive vapour-air mixtures. WARNING: ▶ Can become highly flammable in use. ▶ Avoid evaporation. ▶ Combustible. ▶ Slight fire hazard when exposed to heat or flame. ▶ Heating may cause expansion or decomposition leading to violent rupture of containers. ▶ On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include;: carbon dioxide (CO2), nitrogen oxides (NOx), sulfur oxides (SOx), other pyrolysis products typical of burning organic materialMay emit corrosive fumes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment.
Major Spills	Moderate hazard. ▶ Clear area of personnel and move upwind. ▶ Alert Fire Brigade and tell them location and nature of hazard. ▶ Wear breathing apparatus plus protective gloves.

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT allow clothing wet with material to stay in contact with skin
Fire and explosion protection	See section 5
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area.

7.2. Conditions for safe storage, including any incompatibilities

|--|--|

- Metal can or drum
- Packaging as recommended by manufacturer.

	Check all containers are clearly labelled and free from leaks.
Storage incompatibility	 Avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates. Avoid strong bases.

7.3. Specific end use(s)

See section 1.2

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

DERIVED NO EFFECT LEVEL (DNEL)

Not Available

PREDICTED NO EFFECT LEVEL (PNEC)

Not Available

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
UK Workplace Exposure Limits (WELs)	ethanol	Ethanol	1920 mg/m3 / 1000 ppm	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1		TEEL-2	TEEL-3
ethanol	Ethyl alcohol; (Ethanol)	Not Available		Not Available	Not Available
Ingredient	Original IDLH		Revised	IDLH	
ethanol	15,000 ppm		3,300 [LE	L] ppm	

8.2. Exposure controls

8.2.1. Appropriate	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:
engineering controls	Process controls which involve changing the way a job activity or process is done to reduce the risk.
	Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment.
8.2.2. Personal protection	





Eye and face protection

- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

Skin protection

See Hand protection below

▶ Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber

Hands/feet protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Suitability and durability of glove type is dependent on usage.

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Body protection

See Other protection below

Other protection

 Overalls. ▶ P.V.C. apron.

Not Available

Barrier cream

Thermal hazards

8.2.3. Environmental exposure controls

See section 12

Respiratory protection

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Red, black, blue liquid

Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not flammable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

9.2. Other information

Not Available

SECTION 10 STABILITY AND REACTIVITY

10.1.Reactivity	See section 7.2
10.2.Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
	Ingestion of ethanol (ethyl alcohol, 'a body:	lcohol') may produce nausea, vomiting, bleeding from the digestive tract, abdominal pain, and diarrhoea. Effects on the	
	Blood concentration	Effects	
	<1.5 g/L	Mild: impaired vision, co-ordination and reaction time; emotional instability	
Ingestion		Moderate: Slurred speech, confusion, inco-ordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence. Slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium.	
Skin Contact	through wounds, lesions or abrasic	armful health effects (as classified under EC Directives); the material may still produce health damage following entry ons. hat this material can cause inflammation of the skin on contact in some persons.	
Eye	There is some evidence to suggest t	hat this material can cause eye irritation and damage in some persons.	
Chronic	nevertheless exposure by all routes	s not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); s should be minimised as a matter of course. cause damage to the liver and cause scarring. It may also worsen damage caused by other agents.	

	TOXICITY	IRRITATION	
Permanent Markers	Not Available Not Available		
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 17100 mg/kg ^[1]	Eye (rabbit): 500 mg SEVERE	
ath an al		, , , ,	-
ethanol	Inhalation (rat) LC50: 64000 ppm/4h ^[2]	Eye (rabbit):100mg/24hr-moderate	9
	Oral (rat) LD50: >1187-2769 mg/kg ^[1]	Skin (rabbit):20 mg/24hr-moderate	e
		Skin (rabbit):400 mg (open)-mild	
	TOXICITY		IRRITATION
	Intraperitoneal (Mouse) LD50: 1600 mg/kg ^[2]		Not Available
	Intraperitoneal (Rat) LD50: 1120 mg/kg ^[2]		
c.i. acid red 18	Intraperitoneal (Rat) LD50: 600 mg/kg ^[2]		
	Oral (Mouse) LD50: >10000 mg/kg ^[2]		
	Oral (Rat) LD50: >10000 mg/kg ^[2]		
	Oral (rat) LD50: >8000 mg/kg ^[2]		
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.*	Value obtained from manufacturer's S	DS. Unless otherwise specified data
	extracted from RTECS - Register of Toxic Effect of chemical Substances		

Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0

Legend:

💢 – Data available but does not fill the criteria for classification

— Data required to make classification available

O – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
ethanol	EC50	24	Algae or other aquatic plants	0.0129024mg/L	4
ethanol	EC50	48	Crustacea	2mg/L	4
ethanol	LC50	96	Fish	42mg/L	4
ethanol	NOEC	2016	Fish	0.000375mg/L	4
ethanol	EC50	72	Algae or other aquatic plants	275mg/L	2
C.I. Solvent Black 5	EC50	96	Algae or other aquatic plants	0.239mg/L	3
C.I. Solvent Black 5	LC50	96	Fish	0.016mg/L	3
c.i. acid red 18	EC50	96	Algae or other aquatic plants	5683.985mg/L	3
c.i. acid red 18	LC50	96	Fish	1336.974mg/L	3
Legend:	Aquatic Toxicity D	, ,	HA Registered Substances - Ecotoxicological database - Aquatic Toxicity Data 5. ECETOC tration Data 8. Vendor Data	, ,	

For solvent dyes:

Environmental Fate: Solvent dyesare characterised as non-ionic or neutral dyes, and are hydrophobic incharacter and thus solubility in water is low, ranging from 0.2 mg/l to 34.3mg/l. Solvent dyes, like the disperse dyes, are hydrophobic. However, due totheir large, complex molecular structure, they have lower vapour pressures thandisperse dyes. The partition coefficients (Kow) are very high for the non-ionicdyes (in the range of 420 for Solvent Yellow 1 to 11,220 for Solvent Yellow 2).

For Ethanol:

log Kow: -0.31 to -0.32; Koc 1: Estimated BCF= 3; Half-life (hr) air: 144;

Half-life (hr) H2O surface water:144;

Henry's atm m3 /mol: 6.29E-06; BOD 5 if unstated: 0.93-1.67,63%

COD: 1.99-2.11,97%;

ThOD: 2.1.

Environmental Fate:Terrestrial - Ethanol quickly biodegrades in soil but may leach into groundwater; most is lost by evaporation. Ethanol is expected to have very highmobility in soil. Volatilization of ethanol from moist soil surfaces is expected to be an important fate process.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)
C.I. Solvent Black 5	HIGH	HIGH
c.i. acid red 18	HIGH	HIGH

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
ethanol	LOW (LogKOW = -0.31)
C.I. Solvent Black 5	LOW (BCF = 184)
c.i. acid red 18	LOW (LogKOW = 1.6301)

12.4. Mobility in soil

Ingredient	Mobility
ethanol	HIGH (KOC = 1)
C.I. Solvent Black 5	LOW (KOC = 583400000)
c.i. acid red 18	LOW (KOC = 1572000)

12.5. Results of PBT and vPvB assessment

	P	В	Т
Relevant available data	Not Available	Not Available	Not Available
PBT Criteria fulfilled?	Not Available	Not Available	Not Available

12.6. Other adverse effects

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ► Reduction
- ▶ Reuse
- Recycling
- ► Disposal (if all else fails)

 Product / Packaging

 This material may be recycled

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- DO NOT allow wash water from cleaning or process equipment to enter drains
 It may be necessary to collect all wash water for treatment before disposal.
 - ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
 - Where in doubt contact the responsible authority.
 Recycle wherever possible or consult manufacture
 - ▶ Recycle wherever possible or consult manufacturer for recycling options.
 - ▶ Consult State Land Waste Authority for disposal.
 - ▶ Bury or incinerate residue at an approved site.
 - Recycle containers if possible, or dispose of in an authorised landfill.

Waste treatment options Not Available
Sewage disposal options Not Available

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1.UN number	Not Applicable	
14.2.Packing group	Not Applicable	
14.3.UN proper shipping name	Not Applicable	
14.4.Environmental hazard	Not Applicable	
14.5. Transport hazard class(es)	Class Not Applicable Subrisk Not Applicable	

14.6. Special precautions for user

Hazard identification (Kemler)	Not Applicable
Classification code	Not Applicable
Hazard Label	Not Applicable
Special provisions	Not Applicable
Limited quantity	Not Applicable

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	Not Applicable		
14.2. Packing group	Not Applicable	Not Applicable		
14.3. UN proper shipping name	Not Applicable			
14.4. Environmental hazard	Not Applicable			
14.5. Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	Not Applicable Not Applicable Not Applicable		
14.6. Special precautions for user	Special provisions		Not Applicable	
	Cargo Only Packing Instructions		Not Applicable	
	Cargo Only Maximum Qty / Pack		Not Applicable	
	Passenger and Cargo Packing Instructions		Not Applicable	
	Passenger and Cargo Maximum Qty / Pack		Not Applicable	
	Passenger and Cargo Limited Quantity Packing Instructions		Not Applicable	
	Passenger and Cargo Limited Maximum Qty / Pack		Not Applicable	

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable			
14.2. Packing group	Not Applicable			
14.3. UN proper shipping name	Not Applicable			
14.4. Environmental hazard	Not Applicable			
14.5. Transport hazard class(es)	IMDG Class Not Applicable IMDG Subrisk Not Applicable			
14.6. Special precautions for user	EMS Number Not Applicable Special provisions Not Applicable Limited Quantities Not Applicable			

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. Packing group	Not Applicable		
14.3. UN proper shipping name	Not Applicable		
14.4. Environmental hazard	Not Applicable		
14.5. Transport hazard class(es)	Not Applicable Not Applicable		
14.6. Special precautions for user	Classification code Not Applicable Special provisions Not Applicable Limited quantity Not Applicable Equipment required Not Applicable Fire cones number Not Applicable		

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

ETHANOL(64-17-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and

Packaging of Substances and Mixtures - Annex VI UK Workplace Exposure Limits (WELs)

C.I. SOLVENT BLACK 5(11099-03-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

C.I. DISPERSE BLUE 60(12217-80-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

C.I. ACID RED 18(2611-82-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC, 1999/13/EC, Commission Regulation (EU) 2015/830, Regulation (EC) No 1272/2008 and their amendments as well as the following British legislation: - The Control of Substances Hazardous to Health Regulations (COSHH) 2002 - COSHH Essentials - The Management of Health and Safety at Work Regulations 1999

15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

SECTION 16 OTHER INFORMATION

Full text Risk and Hazard codes

H225

Highly flammable liquid and vapour.

Other information

Ingredients with multiple cas numbers

Name	CAS No
C.I. Solvent Black 5	11099-03-9, 114654-29-4, 20828-79-9, 52276-97-8, 8005-01-4, 88651-75-6, 94335-94-1

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

 ${\sf PC-STEL} : {\sf Permissible \ Concentration-Short \ Term \ Exposure \ Limit}$

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index