

Safety Data Sheet

Issuing Date 21-Feb-2022

Revision date 12-Oct-2022

Revision Number 3

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Description Solvent Black

Other means of identification

Part Number 53580
UN-No UN1210
Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use ink.
Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

Primera Technology
2 Carlson Pkwy N. Ste. 375
Plymouth, MN 55447 USA
Phone: +1-763-475-6676

Company Name

Kao Collins Inc.
1201 Edison Drive
Cincinnati, OH 45216
PH: 513-948-9000
Info@kaocollins.com

Emergency telephone number Chemtrec 1-800-424-9300

Emergency Telephone International Chemtrec: +1 703-527-3887

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Flammable Liquids	Category 2

Label Elements

EMERGENCY OVERVIEW

Danger

Hazard statements

Causes serious eye irritation
May cause an allergic skin reaction
May damage fertility or the unborn child
May cause drowsiness or dizziness
Highly flammable liquid and vapor

**Appearance** Black**Physical state** liquid**Odor** solvent**Precautionary Statements - Prevention**

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Wash face, hands and any exposed skin thoroughly after handling
 Contaminated work clothing should not be allowed out of the workplace
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 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
 Keep cool
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 IF IN EYES: 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/attention
 If skin irritation or rash occurs: Get medical advice/attention
 Wash contaminated clothing before reuse
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
 Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**Other Information**

- May be harmful if swallowed

Unknown acute toxicity

11.6164 % of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%	Trade secret
Methyl ethyl ketone	78-93-3	50 - 75	*
1,3-Dioxolane	646-06-0	15 - 40	*
Amines, coco alkyl, ethoxylated, compds. with hydrogen bis[2-[2-(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)diazanyl]benzoato(2-)chromate(1-)](1:1)	72869-46-6	0.1 - <1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

NOTE

Remaining components are either not hazardous or below threshold limits.

4. First aid measures**Description of first aid measures**

General advice	Immediate medical attention is required. If symptoms persist, call a physician. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
Ingestion	Immediate medical attention is not required. Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider	Remove all sources of ignition. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms Hives.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Aspiration hazard. Treat symptomatically.

5. Fire-fighting measures**Suitable extinguishing media**

Use Carbon dioxide (CO₂) Dry chemical Water spray, fog or alcohol-resistant foam

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Flammable.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Remove all sources of ignition. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment as required.

Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. Handling and Storage

Precautions for safe handling

Handling Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Keep tightly closed in a dry and cool place. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

Incompatible materials Chlorinated compounds.

8. Exposure Controls/Personal Protection

Control parameters**Exposure guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl ethyl ketone 78-93-3	300 ppm STEL TWA: 200 ppm	TWA: 200 ppm TWA: 590 mg/m ³	IDLH: 3000 ppm TWA: 200 ppm TWA: 590 mg/m ³ STEL: 300 ppm STEL: 885 mg/m ³
Acetal	TWA: 20 ppm	-	-

NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Hexavalent Chrome may be formed during welding.

Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight sealing safety goggles. Face protection shield.

Skin and body protection

Chemical resistant apron.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures

When using do not eat or drink. Regular cleaning of equipment, work area and clothing is recommended.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	liquid	Odor	solvent
Appearance	Black	Odor Threshold	No information available
Color	No information available		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		
Melting point / freezing point		
Boiling point / boiling range	79 °C	
Flash point	< -4 °C	Seta Closed Cup
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	<1	
Specific gravity	0.75 - 0.95	
Water solubility	partially	
Solubility(ies)	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available °C	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC content	87.49
Liquid Density	6.689 lb/gal at 25 deg C
Bulk density	No information available

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heating in air.

Incompatible materials

Chlorinated compounds.

Hazardous Decomposition Products

None under normal use conditions. Carbon oxides.

11. Toxicological Information

Information on likely routes of exposure**Product Information**

The product has not been tested

Inhalation

May cause irritation of respiratory tract. May cause drowsiness and dizziness. Avoid breathing vapors or mists.

Eye contact

Avoid contact with eyes. Causes serious eye irritation.

IF ON SKIN

May cause skin irritation and/or dermatitis. Avoid contact with skin. May cause sensitization by skin contact.

Ingestion

May be harmful if swallowed. Do NOT taste or swallow.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl ethyl ketone 78-93-3	= 2483 mg/kg (Rat) = 2737 mg/kg (Rat)	= 5000 mg/kg (Rabbit) = 6480 mg/kg (Rabbit)	= 11700 ppm (Rat) 4 h
1,3-Dioxolane 646-06-0	= 3 g/kg (Rat)	= 8480 mg/kg (Rabbit) = 15 g/kg (Rat) = 8480 µL/kg (Rabbit)	= 68.4 mg/L (Rat) 4 h = 20650 mg/m ³ (Rat) 4 h

Information on toxicological effects**Symptoms**

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

Irritating to skin.

Serious eye damage/eye irritation

Risk of serious damage to eyes. Irritating to eyes.

Sensitization

Severe eye irritant. May cause irritation to the skin and respiratory system.

Mutagenic effects

May cause an allergic skin reaction.

Carcinogenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Amines, coco alkyl, ethoxylated, compds. with hydrogen bis[2-[2-(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)diazetyl]benzoato(2-)chromate(1-)](1:1) 72869-46-6	-	Group 3	-	-

Reproductive toxicity

May impair fertility. Possible risk of impaired fertility. May cause harm to the unborn child. Possible risk of harm to the unborn child.

STOT - single exposure

No information available.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Chronic toxicity

Ethylbenzene has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B). Prolonged or repeated overexposure to ethylbenzene may result in adverse effects to the kidneys, liver, respiratory. Prolonged exposure may cause chronic effects. Repeated or prolonged skin contact may

Target organ effects
Aspiration hazard

cause skin irritation and/or dermatitis and sensitization of susceptible persons. Avoid repeated exposure.
liver, blood, Eyes, Skin, Central Nervous System (CNS), blood, Reproductive System.
No information available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 11.6164 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	2654 mg/kg
ATEmix (dermal)	5755 mg/kg
ATEmix (inhalation-dust/mist)	73 mg/l
ATEmix (inhalation-vapor)	49.2 mg/l

12. Ecological Information**Ecotoxicity**

Harmful to aquatic life with long lasting effects

9.6164 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Methyl ethyl ketone 78-93-3	-	3130 - 3320: 96 h Pimephales promelas mg/L LC50 flow-through	4025 - 6440: 48 h Daphnia magna mg/L EC50 Static 520: 48 h Daphnia magna mg/L EC50 5091: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Partition coefficient
Methyl ethyl ketone 78-93-3	0.3
1,3-Dioxolane 646-06-0	-0.37

Other adverse effects

No information available

13. Disposal Considerations**Waste treatment methods**

Waste treatment methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated packaging Do not re-use empty containers.

US EPA Waste Number D035

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Methyl ethyl ketone 78-93-3	Toxic; Ignitable

14. Transport Information

DOT

UN-No UN1210
 Proper shipping name Printing Ink, Flammable
 Hazard Class 3
 Packing group II

TDG

Not Evaluated Not regulated

MEX

Not Evaluated Not regulated

ICAO

Not Evaluated Not regulated

IATA

UN-No UN1210
 Proper shipping name Printing Ink, Flammable
 Hazard Class 3
 Packing group II

IMDG/IMO

UN-No UN1210
 Proper shipping name Printing Ink, Flammable
 Hazard Class 3
 Packing group II

RID

Not Evaluated Not regulated

UN-No Not Evaluated
 Proper shipping name Not Evaluated
 Hazard Class Not Evaluated
 Packing group Not Evaluated
 Classification code Not Evaluated
 ADR/RID-Labels Not Evaluated

ADR

UN-No UN1210
 Proper shipping name Printing Ink, Flammable
 Hazard Class 3
 Packing group II

ADN

Not Evaluated Not regulated

15. Regulatory Information

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Methyl ethyl ketone 78-93-3	X	X	X	X	X	X	X	X
1,3-Dioxolane 646-06-0	X	X	X	X	X	X	X	-
Amines, coco alkyl, ethoxylated, compds. with hydrogen bis[2-[2-(4,5-dihydro- 3-methyl-5-oxo-1-phe- nyl-1H-pyrazol-4-yl)di- azonyl]benzoato(2-)c hromate(1-)(1:1) 72869-46-6	X	X	X	X	X	X	X	X

Legend Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CAS No	Weight-%	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methyl ethyl ketone	78-93-3	50 - 75		Group V		
1,3-Dioxolane	646-06-0	15 - 40		Group I		

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Methyl ethyl ketone 78-93-3	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. State Regulations

California Proposition 65

To the best of our knowledge, this product does not contain Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Methyl ethyl ketone 78-93-3	X	X	X
1,3-Dioxolane 646-06-0	X	X	X
Amines, coco alkyl, ethoxylated, compds. with hydrogen bis[2-[2-(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)diazenyl]benzoato(2-)-chromate(1-)](1:1) 72869-46-6	X	-	X

U.S. EPA Label Information

EPA Pesticide registration number Not applicable

16. Other Information

NFPA	Health hazard 2	flammability 3	Instability 0	Physical and chemical properties -
HMIS	Health hazard 2	flammability 3	Physical hazards 0	Personal precautions X

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Revision note

No information available

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet