

### SAFETY DATA SHEET

#### 1. IDENTIFICATION

**Product Identifier** 

BLUE STEEL INK AEROSOL

Other means of identification

SDS number

Not applicable

Recommended use

Uses advised against

Layout fluid

No information available

Recommended restrictions

Product Type: Extremely flammable aerosol

Synonyms: None

Manufacturer/Importer/Supplier/Distributor Information

Company Name

DOALL CUTTING FLUIDS A DOALL COMPANY 2375 TOUHY AVENUE

ELK GROVE VILLAGE, IL 60007

Telephone (General

Information)

1-888-362-5572 x65047

**Emergency Telephone** 

Number

1-800-424-9300 (CHEMTREC)

**Emergency Telephone** 

Number (outside USA)

1-703-527-3887 (CHEMTREC)

#### 2. HAZARDS IDENTIFICATION

#### Classification

Serious eye damage/eye irritation	Category 2	
Skin Sensitization	Category 1	
Specific target organ toxicity (single exposure)	Category 3	
Aspiration toxicity	Category 1	
Flammable aerosols	Category 1	

# GHS Label elements, including precautionary statements

#### **Emergency Overview**

#### DANGER

#### **Hazard Statements**

Causes serious eye irritation

May cause an allergic skin reaction

May cause drowsiness or dizziness

May be fatal if swallowed and enters airways

Extremely flammable aerosol



Appearance opaque

Physical state Aerosol

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Do not spray on an open flame or other ignition source

Pressurized container: Do not pierce or burn, even after use

#### 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 ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

#### F02378 DoALL BLUE STEEL INK

**Precautionary Statements - Storage** 

Store locked up

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

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

#### Other information

- · Causes mild skin irritation
- · Harmful to aquatic life with long lasting effects
- · Toxic to aquatic life

12.78% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
2-BUTANONE	78-93-3	40-50
PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	20-30
PETROLEUM DISTILLATES	64742-89-8	10-20
XYLENE	1330-20-7	1-10
ISOBUTYL METHACRYLATE	97-86-9	0.1-1.0
ETHYL BENZENE	100-41-4	0.1-1.0

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash off immediately with soap and plenty of water. If skin irritation persists, call a

physician.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Consult a physician.

Ingestion If swallowed, do not induce vomiting - seek medical advice.

Most important symptoms/effects, acute and delayed

Main Symptoms Not applicable.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

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Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

#### Specific hazards arising from the chemical

No information available.

**Explosion Data** 

Sensitivity to Mechanical Impact none. Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation.

Environmental precautions

**Environmental precautions** 

No special environmental precautions required.

#### Methods and materials for containment and cleaning up

**Methods for Containment** 

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling

Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can.

### Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

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

Incompatible products

None known based on information supplied.

Aerosol Level

3

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-BUTANONE 78-93-3	STEL: 300 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 590 mg/m³ (vacated) TWA: 200 ppm (vacated) TWA: 590 mg/m³ (vacated) STEL: 300 ppm (vacated) STEL: 885 mg/m³	IDLH: 3000 ppm TWA: 200 ppm TWA: 590 mg/m³ STEL: 300 ppm STEL: 885 mg/m³

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PROPANE/ISOBUTANE/N-BUTANE 68476-86-8	-	-	
XYLENE 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m³	•
ETHYL BENZENE 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m³ (vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m³	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> STEL: 125 ppm STEL: 545 mg/m <sup>3</sup>

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration) NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**Exposure controls** 

**Engineering Measures** 

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eve/Face Protection** 

Safety glasses with side-shields.

Skin and body protection

Chemical resistant apron. Protective gloves.

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

Remarks • Methods

provided in accordance with current local regulations.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical and chemical properties

Physical state Appearance Color Aerosol opaque blue

Values

e Odor Odor Threshold Solvent

No information available

Property

Melting/freezing point Boiling point/boiling range

Flash Point Evaporation rate Flammability (solid, gas)

Flammability Limits in Air upper flammability limit lower flammability limit

Vapor pressure Vapor density Specific Gravity Water solubility No information available -96.4 °C / -141 °F No information available No information available

No information available

NO IIIOITTIALIOIT available

No information available No information available No information available No information available

0.764

Practically insoluble

#### F02378 DoALL BLUE STEEL INK

Partition coefficient: n-octanol/waterNo information available

Autoignition temperature

No information available

Decomposition temperature Viscosity

No information available No information available

**Explosive properties** 

No information available

Other information

VOC Content(%)

94.24

### 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

#### Conditions to Avoid

Extremes of temperature and direct sunlight.

#### **Incompatible Materials**

None known based on information supplied.

#### **Hazardous Decomposition Products**

None known based on information supplied.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information

Product does not present an acute toxicity hazard based on known information

Not applicable

Inhalation

There is no data available for this product.

Eye contact

There is no data available for this product.

Skin contact

There is no data available for this product.

Ingestion

There is no data available for this product.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-BUTANONE 78-93-3	-	-	23500 mg/m³ (Rat) 8 h
PROPANE/ISOBUTANE/N-BUTAN E 68476-86-8	-	-	-
PETROLEUM DISTILLATES 64742-89-8	-	= 3000 mg/kg ( Rabbit )	
XYLENE 1330-20-7	= 4300 mg/kg (Rat)	-	47635 mg/L (Rat) 4 h
SOBUTYL METHACRYLATE 97-86-9	= 6400 mg/kg (Rat)	-	-
ETHYL BENZENE 100-41-4	= 3500 mg/kg ( Rat )	= 15354 mg/kg ( Rabbit )	17.2 mg/L (Rat) 4 h

Information on toxicological effects

No information available. Symptoms

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

No information available. Sensitization No information available. Germ Cell Mutagenicity

The table below indicates whether each agency has evaluated a listed ingredient as a Carcinogenicity

	our on rogon.			
Chemical Name	ACGIH	IARC	NTP	OSHA
XYLENE 1330-20-7	-	Group 3	-	-
ETHYL BENZENE 100-41-4	A3	Group 2B	<del>-</del>	X

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer) Group 2B - Possibly Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans OSHA: (Occupational Safety & Health Administration)

X - Present

No information available. Reproductive toxicity No information available. Specific target organ systemic

toxicity (single exposure)

No information available. Specific target organ systemic

toxicity (repeated exposure)

Central nervous system, Eyes, Respiratory system, Skin. **Target Organ Effects** 

No information available. Aspiration hazard

#### Numerical measures of toxicity - Product Information

12.78% of the mixture consists of ingredient(s) of unknown toxicity **Unknown Aquatic Toxicty** 

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

ATEmix (oral) 195455 mg/kg 16520 mg/kg ATEmix (dermal) 40 mg/l ATEmix (inhalation-dust/mist)

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
2-BUTANONE 78-93-3	-	3130 - 3320: 96 h Pimephales promelas mg/L LC50 flow-through	-	520: 48 h Daphnia magna mg/L EC50 5091: 48 h Daphnia magna mg/L EC50 4025 - 6440: 48 h Daphnia magna mg/L EC50 Static
PROPANE/ISOBUTANE/N- BUTANE 68476-86-8	K-	-	-	-
PETROLEUM DISTILLATES 64742-89-8	4700: 72 h Pseudokirchneriella subcapitata mg/L EC50	-	7.	-

XYLENE 1330-20-7	-	13.4: 96 h Pimephales promelas mg/L LC50 flow-through 2.661 - 4.093: 96 h Oncorhynchus mykiss mg/L LC50 static 13.5 - 17.3: 96 h Oncorhynchus mykiss mg/L LC50 13.1 - 16.5: 96 h Lepomis macrochirus mg/L LC50 flow-through 19: 96 h Lepomis macrochirus mg/L LC50 7.711 - 9.591: 96 h Lepomis macrochirus mg/L LC50 static 23.53 - 29.97: 96 h Pimephales promelas mg/L LC50 static 780: 96 h Cyprinus carpio mg/L LC50 semi-static 780: 96 h Cyprinus carpio mg/L LC50 30.26 - 40.75: 96 h Poecilia		3.82: 48 h water flea mg/L EC50 0.6: 48 h Gammarus lacustris mg/L LC50
ISOBUTYL	0.29: 96 h	reticulata mg/L LC50 static 20: 96 h Oncorhynchus	_	23: 48 h Daphnia magna
METHACRYLATE 97-86-9	Pseudokirchneriella subcapitata mg/L EC50	mykiss mg/L LC50 flow-through		mg/L EC50
ETHYL BENZENE 100-41-4	4.6: 72 h Pseudokirchneriella subcapitata mg/L EC50 438: 96 h Pseudokirchneriella subcapitata mg/L EC50 2.6 - 11.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 1.7 - 7.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 1.7 - 8: 96 h	7.55 - 11: 96 h Pimephales promelas mg/L LC50 flow-through 32: 96 h Lepomis macrochirus mg/L LC50 static 9.1 - 15.6: 96 h Pimephales promelas mg/L LC50 static 9.6: 96 h Poecilia reticulata mg/L LC50 static 4.2: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 11.0 - 18.0: 96 h Oncorhynchus mykiss mg/L LC50 static	-	1.8 - 2.4: 48 h Daphnia magna mg/L EC50

## Persistence and degradability

No information available.

#### Bioaccumulation

No information available.

Chemical Name	log Pow
2-BUTANONE 78-93-3	0.29
PROPANE/ISOBUTANE/N-BUTANE 68476-86-8	2.8
XYLENE 1330-20-7	3.15
ISOBUTYL METHACRYLATE 97-86-9	2.01
ETHYL BENZENE 100-41-4	3.118

Other adverse effects

No information available

### 13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

Contaminated packaging

Do not re-use empty containers.

#### 14. TRANSPORT INFORMATION

**DOT Ground** 

CONSUMER COMMODITY ORM-D

or

LIMITED QUANTITY

IATA

UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD. QTY.

IMDG

UN1950, AEROSOLS, 2.1, LTD. QTY.

### 15. REGULATORY INFORMATION

#### International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
2-BUTANONE	Х	X	X	X	X	X	X	Χ
PROPANE/ISOBUTA NE/N-BUTANE	Х	Х	Х	Not listed	Х	Х	Х	Х
PETROLEUM DISTILLATES	Х	Х	Х	Not listed	Х	X	Х	Х
XYLENE	X	X	X	X	X	X	X	X
ISOBUTYL METHACRYLATE	Х	Х	Х	Х	Х	X	Х	X
ETHYL BENZENE	X	X	X	X	X	X	X	X

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 Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %*	SARA 313 - Threshold Values %
XYLENE - 1330-20-7	1330-20-7	1-10	1.0
ETHYL BENZENE - 100-41-4	100-41-4	0.1-1.0	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
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	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
XYLENE 1330-20-7	100 lb			Х
ETHYL BENZENE 100-41-4	1000 lb	Х	X	X

#### 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
2-BUTANONE 78-93-3	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
XYLENE 1330-20-7	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
ETHYL BENZENE 100-41-4	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

#### U.S. State Regulations

<u>California Proposition 65</u>
This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
ETHYL BENZENE - 100-41-4	Carcinogen

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-BUTANONE 78-93-3	X	X	Х
PETROLEUM DISTILLATES 64742-89-8			Х
XYLENE 1330-20-7	Х	X	Х
SOBUTYL METHACRYLATE 97-86-9	Х		
ETHYL BENZENE 100-41-4	Х	X	Х

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### WHMIS Hazard Class

A Compressed gases B5 Flammable aerosol D2B Toxic materials



### 16. OTHER INFORMATION

Physical and chemical Flammability 4 Instability 0 Health Hazard 2 NFPA hazards -Personal protection B Physical Hazard 1 Flammability 4 Health Hazard 2 HMIS

07-May-2014 Issuing date 07-May-2014 **Revision Date 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.