

1 Identification of substance:

- **Product details:**
- **Trade name:** *Quick Spray Inks - All Colors*
- **Product number:**
 1513-155 Black
 1523-155 Red
 1533-155 Blue
 1543-155 Green
 1553-155 Yellow
 1563-155 White
 1573-155 Orange
 1563-157 White Blockout
 1593-157 Tan Blockout
- **Application of the substance / the preparation** *Printing inks*
- **Manufacturer/Supplier:**
 Diagraph MSP, an ITW Company
 Marking & Stenciling Products Division
 5307 Meadowland Parkway
 Marion, IL 62959
- **Customer Sales & Service:**
 800-521-3047 USA
 618-997-3321
 618-997-1766 Fax
- **email:** *msds@diagraphms.com*
- **Emergency information:**
 Contact Infotrac: (800) 535 5053 (US only)
 International: +1 352 323 3500

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

| · Dangerous components: | | |
|--------------------------------|---|--------|
| 68476-85-7 | Petroleum gases, liquefied | 20-40% |
| 67-64-1 | acetone | 20-40% |
| 64742-89-8 | Solvent naphtha (petroleum), light aliph. | 5-20% |
| 8052-41-3 | Mineral spirits | 0-5% |
| 1330-20-7 | xylene (mix) | 0-5% |

3 Hazards identification

- **Hazard description:**



Harmful
 Highly flammable

- **Information pertaining to particular dangers for man and environment:**

Heating may cause an explosion.

Harmful: may cause lung damage if swallowed.

Do not spray on flames or red-hot objects.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Keep out of the reach of children.

- **Classification system**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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· **NFPA Ratings (scale 0-4)**



Health = 1
Fire = 4
Reactivity = 1

· **HMIS Rating (scale 0-4)**



HEALTH 1 Health - 1
FIRE 4 Flammability - 4
REACTIVITY 1 Reactivity - 1

· **Routes of Entry**

Ingestion
Inhalation

· **Target Organs Lungs**

· **Irritancy**

Respiratory Tract
Skin

· **Sensitizing Capability None known**

4 First aid measures

- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for 15 minutes under running water.
- **After swallowing** Do not induce vomiting; immediately call for medical help.

5 Fire fighting measures

- **Suitable extinguishing agents**
Special powder for metal fires. Do not use water.
CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents**
Water.
Water with full jet.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
Keep respiratory protective device available.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

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Do not spray on a naked flame or any incandescent material.

- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

68476-85-7 Petroleum gases, liquefied

| | |
|-----------|-----------------------------------|
| ACGIH TLV | 1000 ppm |
| NIOSH REL | 1800 mg/m ³ , 1000 ppm |
| OSHA PEL | 1800 mg/m ³ , 1000 ppm |

67-64-1 acetone

| | |
|-----------|--|
| ACGIH TLV | Short-term value: 750 ppm Long-term value: 500 ppm A4; BEI |
| NIOSH REL | 590 mg/m ³ , 250 ppm |
| OSHA PEL | 2400 mg/m ³ , 1000 ppm |

8052-41-3 Mineral spirits

| | |
|-----------|--|
| ACGIH TLV | 100 ppm |
| NIOSH REL | Short-term value: C 1800* mg/m ³ Long-term value: 350 mg/m ³ *15-min |
| OSHA PEL | 2900 mg/m ³ , 500 ppm |

1330-20-7 xylene (mix)

| | |
|-----------|--|
| ACGIH TLV | Short-term value: 150 ppm Long-term value: 100 ppm A4, BEI |
| NIOSH REL | Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm (o-, m-, & p-isomers) |
| OSHA PEL | 435 mg/m ³ , 100 ppm |

- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves.

- **Eye protection:** Safety glasses

9 Physical and chemical properties:

- **General Information**

Form: Aerosol

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| | |
|---|------------------------------------|
| Color: | According to product specification |
| Odor: | Characteristic |
| · Change in condition | |
| Melting point/Melting range: | undetermined |
| Boiling point/Boiling range: | -44°C (-47°F) |
| · Flash point: | -72°C (-98°F) |
| · Ignition temperature: | 230.0°C (446°F) |
| · Auto igniting: | Product is not selfigniting. |
| · Danger of explosion: | Heating may cause an explosion. |
| · Explosion limits: | |
| Lower: | 2.6 Vol % |
| Upper: | 13.0 Vol % |
| · Vapor pressure at 20°C (68°F): | 233.0 hPa (175 mm Hg) |
| · Density: | Not determined |
| · Solubility in / Miscibility with | |
| Water: | Not miscible or difficult to mix |
| · Solvent content: | |
| Organic solvents: | 70-90 % |
| · Solids content: | 10-30 % |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

12 Ecological information:

- **General notes:**
- Water hazard class 2 (Self-assessment): hazardous for water.
- Do not allow product to reach ground water, water course or sewage system, even in small quantities.

13 Disposal considerations

- **Product:**
- **Recommendation**
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Comply with all Federal, State, and Local regulations regarding disposal.
- **Uncleaned packagings:**
- **Recommendation:**
- Disposal must be made according to official regulations.

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Comply with all Federal, State, and Local regulations regarding disposal.

14 Transport information

· DOT regulations:



- Hazard class: 2.1
- Identification number: UN1950
- Packing group: -
- ERG #: 126
- Proper shipping name (technical name): Aerosols, Flammable
- Remarks: Note: For US Ground shipments, this product may be classified as "Consumer Commodity" ORM-D.

· Land transport ADR/RID (cross-border)



- ADR/RID class: 2.1
- Item: 5 F
- UN-Number: 1950
- Description of goods: 1950 Aerosols, Flammable

· Maritime transport IMDG:



- IMDG Class: 2.1
- Page: 2102
- UN Number: 1950
- Packaging group: -
- EMS Number: F-D,S-U
- MFAG: 620
- Marine pollutant: No
- Proper shipping name: Aerosols, Flammable

· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 2.1
- UN/ID Number: 1950
- Packaging group: -
- Proper shipping name: Aerosols, Flammable

15 Regulations

· Cancerogenity categories

· EPA (Environmental Protection Agency)

| | | |
|-----------|--------------|---|
| 67-64-1 | acetone | D |
| 1330-20-7 | xylene (mix) | D |
| 108-88-3 | toluene | D |
| 71-43-2 | benzene | A |

· IARC (International Agency for Research on Cancer)

| | | |
|-----------|--------------|---|
| 1330-20-7 | xylene (mix) | 3 |
|-----------|--------------|---|

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| | | |
|----------|---------|---|
| 108-88-3 | toluene | 3 |
| 71-43-2 | benzene | I |

· **NTP (National Toxicology Program)**

| | | |
|---------|---------|---|
| 71-43-2 | benzene | K |
|---------|---------|---|

· **TLV (Threshold Limit Value established by ACGIH)**

| | | |
|-----------|--------------|----|
| 67-64-1 | acetone | A4 |
| 1330-20-7 | xylene (mix) | A4 |
| 108-88-3 | toluene | A4 |
| 71-43-2 | benzene | AI |

· **MAK (German Maximum Workplace Concentration)**

| | | |
|---------|---------|---|
| 71-43-2 | benzene | I |
|---------|---------|---|

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

| | | |
|---------|---------|--|
| 71-43-2 | benzene | |
|---------|---------|--|

· **OSHA-Ca (Occupational Safety & Health Administration)**

| | | |
|---------|---------|--|
| 71-43-2 | benzene | |
|---------|---------|--|

· **Product related hazard information:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**

Harmful
Highly flammable

· **Hazard-determining components of labelling:**

Petroleum gases, liquefied
Solvent naphtha (petroleum), light aliph.

· **Risk phrases:**

Heating may cause an explosion.
Harmful: may cause lung damage if swallowed.

· **Safety phrases:**

Keep out of the reach of children.
Do not breathe gas/fumes/vapour/spray.
Wear suitable protective clothing and gloves.
In case of insufficient ventilation, wear suitable respiratory equipment.
In case of accident or if you feel unwell, seek medical advice immediately.
Use only in well-ventilated areas.

· **Special labeling of certain preparations:**

Do not spray on flames or red-hot objects.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Keep out of the reach of children.

· **National regulations**

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

· **Other regulations, limitations and prohibitive regulations**

· **OSHA Regulations**

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed
OSHA Specifically Regulated Substance (29 CFR 1910.): Not listed

· **Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, Section 313:**

| | | |
|-----------|--------------|--|
| 1330-20-7 | xylene (mix) | |
|-----------|--------------|--|

· **CONEG:**

This product has not been tested for heavy metals covered under the various CONEG laws. However, raw materials used to make this product do not contain mercury, lead, cadmium, or hexavalent chromium and none are added during manufacture.

· **Toxic Substances Control Act TSCA Status:**

All components of this product are listed in the EPA's Inventory of Chemical Substances as required under the Toxic Substances Control Act (TSCA).

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· California Proposition 65 (Chemicals known to cause cancer):

71-43-2 benzene

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· MSDS Created By: Peter Gimse**· File:** 203**· Revision Information (All previous revisions obsolete):**

Re-issued 6-13-2007

02/26/2002 Updated Company Info.

Previous Revs: 09/22/2000 Section 14: Added ORM-D, Corrected IMDG.

08/22/2000 Section 14: Corrected Shipping Information.

05/02/2000

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