# DIAGRAPH SAFETY DATA SHEET

### 1. Identification

Product number 1000002134

Product identifier 1593157 11.5 oz Tan Blockout

Company information DIAGRAPH MARKING & CODING 5307 MEADOWLAND PARKWAY MARION, IL 62959 United States

Company phone General Assistance 800-521-3047

Emergency telephone US Infotrac: 800-535-5053 (US only)
+1-352-323-3500 international

US

Version # 01

Recommended use COATING
Recommended restrictions None known.

# 2. Hazard(s) identification

Physical hazardsFlammable aerosolsCategory 1Health hazardsSerious eye damage/eye irritationCategory 2A

Specific target organ toxicity, single exposure Category 3 narcotic effects

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol. Causes serious eye irritation. May cause drowsiness or dizziness.

Precautionary statement

Prevention 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. Avoid breathing gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

Wear eye protection/face protection.

**Response** If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get

medical advice/attention.

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

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

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

## 3. Composition/information on ingredients

#### **Mixtures**

| Chemical name            | Common name and synonyms | CAS number | %       |
|--------------------------|--------------------------|------------|---------|
| Acetone                  |                          | 67-64-1    | 40 - 60 |
| Butane                   |                          | 106-97-8   | 10 - 20 |
| Propane                  |                          | 74-98-6    | 10 - 20 |
| Other components below i | reportable levels        |            | 10 - 20 |

 SDS US

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.

Most important

symptoms/effects, acute and delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Alcohol resistant foam. Powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

20 not add mater jet ad an examgenency, ad and nim optical and income

the chemical
Special protective equipment

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with

and precautions for firefighters

face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing gas. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

| US. OSHA Table Z-1 Limits for Air Contaminants | (29 CFR 1910.1000) |
|--|--------------------|
|  |                    |

| Components                     | Туре           | Value      |  |
|--------------------------------|----------------|------------|--|
| Acetone (CAS 67-64-1)          | PEL            | 2400 mg/m3 |  |
|                                |                | 1000 ppm   |  |
| Propane (CAS 74-98-6)          | PEL            | 1800 mg/m3 |  |
|                                |                | 1000 ppm   |  |
| US. ACGIH Threshold Limit Valu | ies            |            |  |
| Components                     | Туре           | Value      |  |
| Acetone (CAS 67-64-1)          | STEL           | 500 ppm    |  |
|                                | TWA            | 250 ppm    |  |
| Butane (CAS 106-97-8)          | STEL           | 1000 ppm   |  |
| US. NIOSH: Pocket Guide to Che | emical Hazards |            |  |
| Components                     | Туре           | Value      |  |
| Acetone (CAS 67-64-1)          | TWA            | 590 mg/m3  |  |
|                                |                | 250 ppm    |  |
| Butane (CAS 106-97-8)          | TWA            | 1900 mg/m3 |  |
|                                |                | 800 ppm    |  |
| Propane (CAS 74-98-6)          | TWA            | 1800 mg/m3 |  |
|                                |                | 1000 ppm   |  |

#### **Biological limit values**

| <b>ACGIH Biological</b> | <b>Exposure</b> | Indices |
|-------------------------|-----------------|---------|
|-------------------------|-----------------|---------|

| Components            | Value   | Determinant | Specimen | Sampling Time |
|-----------------------|---------|-------------|----------|---------------|
| Acetone (CAS 67-64-1) | 25 mg/l | Acetone     | Urine    | *             |

<sup>\* -</sup> For sampling details, please see the source document.

# Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear suitable protective clothing.

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene W considerations af

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

#### **Appearance**

Physical state Gas.
Form Aerosol.

Product name: 1593157 11.5 oz Tan Blockout SDS #: 42596 Version #: 01 Issue date: 07-09-2018

Color Not available. Not available. Odor **Odor threshold** Not available. Not available. pН Not available. Melting point/freezing point

Initial boiling point and boiling

132.89 °F (56.05 °C) estimated

range

-156.0 °F (-104.4 °C) PROPELLANT estimated Flash point

Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

2.3 % estimated

(%)

Flammability limit - upper

11.4 % estimated

(%)

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

Vapor pressure 214.14 psig @70F estimated

Not available. Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

847.78 °F (453.21 °C) estimated **Auto-ignition temperature** 

Not available. **Decomposition temperature Viscosity** Not available.

Other information

**Explosive properties** Not explosive. Not oxidizing. Oxidizing properties Specific gravity 0.586 estimated

## 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. **Chemical stability** Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms related to the

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

physical, chemical and toxicological characteristics

#### Information on toxicological effects

Narcotic effects. **Acute toxicity** Components **Species Test Results** Acetone (CAS 67-64-1) **Acute** Dermal LD50 Guinea pig > 7426 mg/kg, 24 Hours > 9.4 ml/kg, 24 Hours Rabbit > 7426 mg/kg, 24 Hours > 9.4 ml/kg, 24 Hours Inhalation LC50 Rat 55700 ppm, 3 Hours 132 mg/l, 3 Hours 50.1 mg/l Oral LD50 Rat 5800 mg/kg 2.2 ml/kg Butane (CAS 106-97-8) **Acute** Inhalation LC50 Mouse 1237 mg/l, 120 Minutes 52 %, 120 Minutes Rat 1355 mg/l Propane (CAS 74-98-6) **Acute** Inhalation LC50 Mouse 1237 mg/l, 120 Minutes 52 %, 120 Minutes

\* Estimates for product may be based on additional component data not shown.

Rat

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

1355 mg/l 658 mg/l/4h

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

Not classified.

repeated exposure

Product name: 1593157 11.5 oz Tan Blockout

5/9 SDS #: 42596 Version #: 01 Issue date: 07-09-2018

Not likely, due to the form of the product. **Aspiration hazard Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components            |      | Species  | Test Results               |
|-----------------------|------|--|----------------------------|
| Acetone (CAS 67-64-1) |      |  |                            |
| Aquatic               |      |  |                            |
| Crustacea             | EC50 | Water flea (Daphnia magna)                           | 21.6 - 23.9 mg/l, 48 hours |
| Fish                  | LC50 | Rainbow trout, donaldson trout (Oncorhynchus mykiss) | 4740 - 6330 mg/l, 96 hours |

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

-0.24Acetone 2.89 Butane Propane 2.36

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

## 14. Transport information

DOT

UN1950 **UN number** 

**UN** proper shipping name Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

Class 2.1 Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82 306 Packaging exceptions Packaging non bulk None Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking.

IATA

**UN number** UN1950

Aerosols, flammable **UN proper shipping name** 

Product name: 1593157 11.5 oz Tan Blockout SDS US Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** No. **ERG Code** 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Allowed with restrictions. Cargo aircraft only

LTD QTY **Packaging Exceptions** 

**IMDG** 

**UN number** UN1950 **UN** proper shipping name **AEROSOLS** 

Transport hazard class(es)

Class 2.1 Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

LTD QTY

Not applicable.

**Environmental hazards** 

Marine pollutant No. F-D. S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

**Packaging Exceptions** Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

DOT



IATA; IMDG



# 15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US federal regulations** 

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Product name: 1593157 11.5 oz Tan Blockout SDS #: 42596 Version #: 01 Issue date: 07-09-2018 **CERCLA Hazardous Substance List (40 CFR 302.4)** 

Acetone (CAS 67-64-1) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number** 

Acetone (CAS 67-64-1) 6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

35 %WV Acetone (CAS 67-64-1)

**DEA Exempt Chemical Mixtures Code Number** 

Acetone (CAS 67-64-1) 6532

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Acetone (CAS 67-64-1) Butane (CAS 106-97-8)

**US. Massachusetts RTK - Substance List** 

Acetone (CAS 67-64-1) Butane (CAS 106-97-8) Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1) Butane (CAS 106-97-8) Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1) Butane (CAS 106-97-8) Propane (CAS 74-98-6)

**US. Rhode Island RTK** 

Acetone (CAS 67-64-1) Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

Product name: 1593157 11.5 oz Tan Blockout SDS US 8/9

# **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or region

| Australia   | Australian Inventory of Chemical Substances (AICS)                     | No  |
|-------------|--|-----|
| Canada      | Domestic Substances List (DSL)   | Yes |
| Canada      | Non-Domestic Substances List (NDSL)                                    | No  |
| China       | Inventory of Existing Chemical Substances in China (IECSC)             | No  |
| Europe      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No  |
| Europe      | European List of Notified Chemical Substances (ELINCS)                 | No  |
| Japan       | Inventory of Existing and New Chemical Substances (ENCS)               | No  |
| Korea       | Existing Chemicals List (ECL)  | No  |
| New Zealand | New Zealand Inventory  | No  |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances              | Yes |

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Inventory name

**Issue date** 07-09-2018

Version # 01

**Disclaimer** We cannot anticipate all conditions under which this information and its product, or the products of

other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written

based on the best knowledge and experience currently available.

Revision information Product and Company Identification: Alternate Trade Names

Product name: 1593157 11.5 oz Tan Blockout

On inventory (yes/no)\*

Yes