

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

| | |
|---------------|-----------------------------------|
| Chemical Name | Mixture |
| CAS No. | Mixture |
| Trade Name | OSBORN LAYOUT FLUID REMOVER 76205 |
| Product Code | M-5713 |

Relevant identified uses of the substance or mixture and uses advised against

| | |
|----------------------|----------------------|
| Identified Use(s) | Metalworking product |
| Uses Advised Against | None |

| | |
|------------------------|---------------------------------------------------------------|
| Company Identification | Osborn 2350 Salisbury Road North Richmond, IN 47374 USA |
|------------------------|---------------------------------------------------------------|

| | |
|---------------------------|------------------------------------------------------------------------|
| Telephone | (765) 965-5333 |
| Fax | (765) 935-0212 |
| E-Mail (competent person) | marketsupport@osborn.com |

Emergency telephone number

| | |
|---------------------|-------------------------------------------------------------------------------------------------------------|
| Emergency Phone No. | Transportation Emergency: CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted) |
|---------------------|-------------------------------------------------------------------------------------------------------------|

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

| | |
|-----------------------------|---------------------------------------------------------------------------------------------------------|
| OSHA HCS (29 CFR 1910.1200) | Flam. Aerosol 1; Liquefied gas; Repr. 2; STOT RE 2; STOT SE 3; Skin Irrit. 2; Eye Irrit. 2; Asp. Tox. 1 |
|-----------------------------|---------------------------------------------------------------------------------------------------------|

Label elements

Hazard Symbol



Signal word(s)

DANGER

Hazard Statement(s)

Extremely flammable aerosol.
 Contains gas under pressure; may explode if heated.
 Suspected of damaging the unborn child.
 May cause damage to organs through prolonged or repeated exposure:
 Inhalation - neuropsychological effects, auditory dysfunction and effects on colour vision.
 May cause drowsiness or dizziness.
 May cause respiratory irritation.
 Causes skin irritation. Causes serious eye irritation.
 May be fatal if swallowed and enters airways.

Precautionary Statement(s)

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
 Do not spray on an open flame or other ignition source.

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Do not pierce or burn, even after use.

Do not breathe mist/vapours/spray.

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

Wash hands and exposed skin after use.

Use only outdoors or in a well-ventilated area.

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

Other hazards

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Additional Information

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Ingredient(s) | % wt. * | CAS No. | Hazard classification |
|-------------------------|---------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toluene | 40 - 50 | 108-88-3 | Flam. Liq. 2; H225 Repr. 2; H361 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Asp. Tox. 1; H304 STOT SE 3; H336 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412 |
| Propane | 10 - 15 | 74-98-6 | Flam. Gas 1; H220 Liquefied gas; H280 |
| Butane | 10 - 15 | 106-97-8 | Flam. Gas 1; H220 Liquefied gas; H280 |
| Butyl Acetate | 10 - 20 | 123-86-4 | Flam. Liq. 3; H226 STOT SE 3; H336 |
| Isopropanol | 10 - 20 | 67-63-0 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 |
| Acetone | 10 - 20 | 67-64-1 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 |

Additional Information - None

* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation

Move person to fresh air. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention.

Skin Contact

Wash affected skin with soap and water. If symptoms develop, obtain medical attention. Take off contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

Eye Contact

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.

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Ingestion

Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Seek medical treatment.

Most important symptoms and effects, both acute and delayed

Aspiration of droplets may cause pulmonary oedema. May cause drowsiness and dizziness.

Indication of any immediate medical attention and special treatment needed

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

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media
-Unsuitable Extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or water spray. Do not use water jet.

Special hazards arising from the substance or mixture

Pressurised container: May burst if heated

Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Eliminate sources of ignition. Avoid contact with skin and eyes. Avoid breathing vapors.

Environmental precautions

Prevent liquid entering sewers, basements and work pits.

Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

**Reference to other sections
Additional Information**

None
None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Use product in a well-ventilated area only. Avoid contact with skin and eyes. Avoid breathing vapors.

Conditions for safe storage, including any incompatibilities

-Storage temperature

Keep in a cool, well ventilated place. Protect from sunlight. Store at temperatures not exceeding 50 °C / 122 °F.

-Incompatible materials

This product should be stored away from sources of strong heat or oxidizing chemicals.

Specific end use(s)

Metalworking product

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

| SUBSTANCE. | CAS No. | (8hr TWA) | | (STEL) | | Note: |
|------------|----------|------------|-------------|------------|-------------|------------------|
| | | PEL (OSHA) | TLV (ACGIH) | PEL (OSHA) | TLV (ACGIH) | |
| Acetone | 67-64-1 | 1000 ppm | 250 ppm | ----- | 500 ppm | ----- |
| Toluene | 108-88-3 | 200 ppm | 20 ppm | 300 ppm* | ----- | *10-min. Ceiling |
| n-Butane | 106-97-8 | ----- | 250 ppm | ----- | ----- | ----- |
| Propane | 74-98-6 | 1000 ppm | Aspyx.# | ----- | ----- | # |

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| | | | | | | |
|-----------------|----------|---------|---------|---------|---------|-------|
| n-Butyl Acetate | 123-86-4 | 150 ppm | 150 ppm | ----- | 200 ppm | ----- |
| Isopropanol | 67-63-0 | 400 ppm | 200 ppm | 500 ppm | 400 ppm | ----- |

^NIC = Notice of Intended Changes (ACGIH®); #Assure minimum oxygen content of work atmosphere;

Recommended monitoring method

NIOSH 1500 (hydrocarbons, B.P. 36 - 126 °C); NIOSH 1501 (Hydrocarbons, Aromatic); NIOSH 1450 (Esters I); NIOSH 1400 (Alcohols)

Exposure controls

Appropriate engineering controls

Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

Personal protection equipment

Eye/face protection



Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)



Wear suitable gloves if prolonged skin contact is likely (Viton®/Butyl rubber). Check with protective equipment manufacturer's data.

Respiratory protection



Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.

Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls

None known

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|------------------------------------------|------------------------------------|
| Appearance | Aerosol |
| Color | Colorless |
| Odor | Petroleum spirit / Fuel oil-like |
| Odor Threshold (ppm) | Not available |
| pH (Value) | Not available |
| Melting Point (°C) / Freezing Point (°C) | Not available |
| Boiling point/boiling range (°C): | Not available |
| Flash Point (°C) | -104 (Propane) |
| Evaporation Rate | Not available |
| Flammability (solid, gas) | Extremely flammable |
| Explosive Limit Ranges | 2.1% - 9.5% v/v (Propane) |
| Vapor pressure (Pascal) | ca. 95 x 10 ⁴ (Propane) |
| Vapor Density (Air=1) | ca. 1.56 @ 0°C (Propane) |
| Density (g/ml) | Not available |
| Solubility (Water) | Not available |
| Solubility (Other) | Not available |
| Partition Coefficient (n-Octanol/water) | Not available |
| Auto Ignition Point (°C) | 450 (Propane) |
| Decomposition Temperature (°C) | Not available |
| Kinematic Viscosity | <20 cSt |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |
| Other information | Not available |

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SECTION 10: STABILITY AND REACTIVITY

| | |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity | Stable under normal conditions. |
| Chemical stability | Stable. |
| Possibility of hazardous reactions | None anticipated. |
| Conditions to avoid | Avoid contact with heat and ignition sources. |
| Incompatible materials | Strong oxidizing agents. Reducing agents. Acids. Bases. Chlorinated compounds. Aldehydes. Acetone may form explosive mixtures in contact with chromic anhydride, chromyl alcohol, hexachloromelamine, hydrogen peroxide,permonosulfuric acid, potassium tertbutoxide and thioglycol. |
| Hazardous decomposition product(s) | Carbon monoxide, Carbon dioxide, Acrid smoke |

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Acetone (CAS No. 67-64-1)

| | |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity | Oral LD50 = 5800 mg/kg (rat) Dermal LD50 >15800 mg/kg (rabbit) Inhalation LC50 76 mg/L (4 hour(s)) (rat) - Vapours may cause drowsiness and dizziness. |
| Irritation / Corrosivity | Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking. |
| Sensitisation | It is not a skin sensitiser. |
| Repeated dose toxicity | Oral NOAEL = 500 mg/kg/day (rat) (90-days) Inhalation NOAEC \geq 3.515 mg/L (rat), Vapour |
| Carcinogenicity | It is unlikely to present a carcinogenic hazard to man. |

| NTP | IARC | ACGIH | OSHA | NIOSH |
|-----|------|-------|------|-------|
| No. | No. | No. | No. | No. |

| | |
|----------------------------------|-------------|
| Mutagenicity | Negative |
| Toxicity for reproduction | Negative |
| Other information | None known. |

Toluene (CAS No. 108-88-3)

| | |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity | Oral LD50 = 5580 mg/kg (rat) Dermal LD50 >5000 mg/kg (rabbit) Inhalation LC50 (4 hour(s)) 28.1 mg/l (rat) - Vapours may cause drowsiness and dizziness. |
| Irritation / Corrosivity | Causes serious eye irritation. Causes skin irritation. |
| Sensitisation | It is not a skin sensitiser. |
| Repeated dose toxicity | Inhalation NOAEC = 1131 mg/m ³ (rat), 2 Year(s) - May cause damage to organs through prolonged or repeated exposure: neuropsychological effects, auditory dysfunction and effects on colour vision. |
| Carcinogenicity | It is unlikely to present a carcinogenic hazard to man. |

| NTP | IARC | ACGIH | OSHA | NIOSH |
|-----|------|-------|------|-------|
| No. | No. | No. | No. | No. |

| | |
|------------------------------|-------------------------------------------------------------------|
| Mutagenicity | There is no evidence of mutagenic potential. |
| Reproductive toxicity | Suspected of damaging the unborn child. NOAEC: 2.8 mg/liter (rat) |

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Propane (CAS# 74-98-6):

Acute toxicity
Irritation/Corrosivity
Sensitisation
Repeated dose toxicity

Carcinogenicity
Mutagenicity
Reproductive toxicity

Inhalation: LC50 = 1237 mg/L (2-hr, mouse, gas)
 No evidence of irritant effects from normal handling and use.
 It is not a skin sensitiser.
 NOAEC: ≥ 19678 mg/m³ (28-day, rat, Systemic effects)
 LOAEC: 21641 mg/m³ (28-day, rat, effects: Body weight)
 No data. It is unlikely to present a carcinogenic hazard to man.
 There is no evidence of mutagenic potential.
 None anticipated

Isopropanol (CAS No. 67-63-0):

Acute toxicity

Irritation/Corrosivity

Sensitization
Repeated dose toxicity

Carcinogenicity

Oral: LD50 5840 = mg/kg (rat)
 Inhalation: LC50 > 10000 ppm (6-hr, rat, Vapour) May cause rowsiness or dizziness.
 Dermal: LD50 > 16.4 ml/kg
 Causes serious eye irritation.
 It is not a skin sensitiser.
 NOEC: 500 ppm (104-week(s), rat)
 NOAEC: 5000 ppm (104-week(s), rat, Systemic effects)
 No evidence of carcinogenicity. NOEL: 5000 ppm

| NTP | IARC | ACGIH | OSHA | NIOSH |
|-----|------|-------|------|-------|
| No. | No. | No. | No. | No. |

Mutagenicity There is no evidence of mutagenic potential.
Reproductive toxicity None anticipated

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toluene (CAS No. 108-88-3)

Acute toxicity LC50 (96 hour): 5.5 mg/l (*Oncorhynchus kisutch*)
 EC50 (48 hour): 3.78 mg/l (*Ceriodaphnia dubia*)
 EC50 (3 hour): 134 mg/l (Algae)
 Long Term Toxicity NOEC (40 days): 1.39 mg/l (*Oncorhynchus kisutch*)
 NOEC (7 days): 0.74 mg/l (*Ceriodaphnia dubia*)

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14: TRANSPORT INFORMATION

| | U.S. DOT | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|----------------------------|---------------------|----------------------|---------------------------|
| UN number | 1950 | 1950 | 1950 |
| Proper Shipping Name | Aerosols, flammable | Aerosols, flammable | Aerosols, flammable |
| Transport hazard class(es) | 2.1 | 2.1 | 2.1 |
| Packing group | Not applicable | Not applicable | Not applicable |
| Environmental hazards | None assigned | None assigned | None assigned |

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Special precautions for user

None assigned

None assigned

None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

| Chemical Name | CAS No. | Typical %wt. | RQ (Pounds) |
|---------------|----------|--------------|-------------|
| Acetone | 67-64-1 | 10 - 20 | 5000 |
| Toluene | 108-88-3 | 40 - 50 | 1000 |

SARA 311/312 - Hazard Categories:

Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

| Chemical Name | CAS No. | Typical %wt. |
|---------------|----------|--------------|
| Toluene | 108-88-3 | 40 - 50 |

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

| Chemical Name | CAS No. | Typical %wt. | TPQ (pounds) |
|---------------|---------|--------------|--------------|
| None | ---- | ---- | ---- |

California Proposition 65 List:

| Chemical Name | CAS No. | Type of Toxicity |
|---------------|----------|-----------------------|
| Benzene | 71-43-2 | Cancer; Developmental |
| Cumene | 98-82-8 | Cancer |
| Ethylbenzene | 100-41-4 | Cancer |
| Toluene | 108-88-3 | Developmental |

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: May 25, 2015

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- H220: Extremely flammable gas.
- H225: Highly flammable liquid and vapor.
- H226: Flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.
- H361: Suspected of damaging fertility or the unborn child.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H401: Toxic to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

Training advice: None.

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