

01302-1004

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MSDS for #01302 - JACQRD PRCN MIX DYE



Rupert, Gibbon & Spider, Inc.
 1147 Healdsburg Avenue
 Healdsburg, CA 95448
 Tel: 800-442-0455
 Email: service@jacquardproducts.com

Safety Data Sheet (SDS)

Revised Date : 5/6/2015
 Product : Procion MX Dye 040 Fuchsia
 C. I. Name : Red 11
 Identification of the product : Synthetic Organic Dyes

1. Substance/preparation and company identification

Company: Rupert, Gibbon & Spider, Inc. 1147 Healdsburg Avenue Healdsburg, CA 95448
 Tel: 800-442-0455 service@jacquardproducts.com

2. Composition/Information on ingredients

Substance name C. A. S. no. : NA

3. Hazard identification Symptoms relating to use

Inhalation : May cause sensitization by inhalation.
 Skin contact : Not expected to present a significant skin
 Hazard under anticipated conditions of normal use.
 Eye contact : Not expected to present significant eye contact
 Hazard under anticipated conditions of normal use
 Ingestion : Not expected to present a significant ingestion
 Hazard under anticipated conditions of normal use

4. First-aid measures

Inhalation : Remove to fresh air
 Skin contact : Remove affected clothing and wash all exposed skin area
 with mild soap and water, followed by warm water and rinse.
 Eye contact : After contact with eyes, rinse immediately with plenty of water & seek medical advice
 Ingestion : Treat symptomatically

5. Fire-fighting measures

Extinguishing media : Water, spray, dry chemical, CO2, foam
 Special Exposure Hazards : High temperature may liberate toxic gases when mixed with and
 exposed to an ignition source, dust may burn in the open or explode if confined.
 Protection against Fire : Wear proper protective equipment

6. Accidental release measures

Personal precautions : Wear suitable protective clothing and gloves. Avoid dust formation.
 Environmental precautions : Comply with local regulations for disposal notify authorities if product enters sewers or
 public waters. Avoid (reject) fire fighting water to enter environment.
 After spillage / Leakage : Sweep or shovel spills into appropriate container for disposal.

7. Handling and storage

Storage : Keep away from heat, keep container tightly closed when not in use.
 Handling : Handle in accordance with good industrial Hygiene & safety procedures.
 Avoid all unnecessary exposure.



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8. Exposure controls and personal protection

Respiratory protection : Approved dust or mist respirator should be used if airborne particulate is generated when handling this material
 Skin protection : Gloves
 Eye Protection : Safety glasses with side-shields (frame goggles)
 Ignition : When using, do not eat, drink or smote
 Industrial hygiene : Local exhaust and general room ventilation are both essential to prevent accumulation of flammable vapor or dust moisture.

Due to the coloring properties of the product closed work clothes should be used, to avoid stains during manipulation.

9. Physical and chemical properties

Product : Procion MX Dye 040 Fuchsia
 C. I. Name : Red 11
 Chemical family : Reactive Dyes
 Appearance : Ranges from Yellow to Dark Brown
 Odor : Odorless
 PH Value : (4.5 – 6.5)
 Initial boiling point (°c) : No data available
 Density (Kg / m3) : 600 – 800
 Vapor Pressure (hpa) : Not applicable
 Solubility in water (g/l) : > 100 g/l (25°c)
 Flash point (°c) : Not applicable
 Auto ignition Temperature (°c) : No data available
 Explosion limits- Lower (%) : No data available
 Explosion limits – Upper (%) : No data available

10. Stability and reactivity

Hazardous Decomposition : On exposure to high temperature, may decompose, releasing toxic vapors
 Hazardous Reactions : Stable
 Hazardous Properties : None under normal conditions
 Materials to avoid : Strong reducing agents, Oxidizing agent

11. Toxicological information

Rat Oral LD 50 (mg/kg) : > 5000
 Rabbit Dermal LD 50 (mg/kg) : No data available
 Rat Inhalation LC 50 (mg/l/4h) : No data available
 Mutagenic effects : No mutagenic effects reported.
 Dermal Irritation (rabbit) : not an irritant
 Eyes irritation : Slightly irritant

12. Ecological information

L. ides LC 50 (mg/l) : 1000 – 48h
 WGK class (Germany) : No data available
 Biodegradation (%) : No data available
 AOX : 0



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13. Disposal considerations

Disposal : Dispose in a safe manner in accordance with local / national regulations.
Completely empty contents of drums before discarding.

14. Transport information

Not classified as hazardous under transport regulations.

15. Regulatory information

Regulations of the European union (Labeling) / National legislation/Regulations
The product does not require a hazard warning label in accordance with EC Directives.

16. Other information

Recommended uses: Dyes of this type can cause respiratory restrictions sensitization in some individuals and it is advisable to avoid breathing aerosol and dust persons who suffer from asthmatic or breathing problems should not handle this dyes Recipients of our product must take responsibility for observing existing laws and regulations.



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Safety Data Sheet (SDS)

Revised Date : 5/6/2015
 Product : Procion MX Dye 004 Lemon Yellow
 C. I. Name : Reactive Yellow 86
 Identification of the product : Synthetic Organic Dyes

1. Substance/preparation and company identification

Company: Rupert, Gibbon & Spider, Inc. 1147 Healdsburg Avenue Healdsburg, CA 95448
 Tel: 800-442-0455 service@jacquardproducts.com

2. Composition/information on ingredients

Substance name C.A.S.no. : 70865-29-1

3. Hazard Identification Symptoms relating to use

Inhalation : May cause sensitization by inhalation.
 Skin contact : Not expected to present a significant skin Hazard under anticipated conditions of normal use.
 Eye contact : Not expected to present significant eye contact Hazard under anticipated conditions of normal use
 Ingestion : Not expected to present a significant ingestion Hazard under anticipated conditions of normal use

4. First-aid measures

Inhalation : Remove to fresh air
 Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water and rinse.
 Eye contact : After contact with eyes, rinse immediately with plenty of water and seek medical advice.
 Ingestion : Treat symptomatically

5. Fire-fighting measures

Extinguishing media : Water, spray, dry chemical, CO2, foam
 Special Exposure Hazards : High temperature may liberate toxic gases when mixed with and exposed to an ignition source, dust may burn in the open or explode if confined.
 Protection against Fire : Wear proper protective equipment

6. Accidental release measures

Personal precautions : Wear suitable protective clothing and gloves. Avoid dust formation.
 Environmental precautions : Comply with local regulations for disposal notify authorities if product enters sewers or public waters. Avoid (reject) fire fighting water to enter environment.

7. Handling and storage

Storage : Keep away from heat, keep container tightly closed when not in use.
 Handling : Handle in accordance with good industrial Hygiene and safety procedures. Avoid all unnecessary exposure.



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8. Exposure controls and personal protection

Respiratory protection : Approved dust or mist respirator should be used if airborne particulate is generated when handling this material
 Skin protection : Gloves
 Eye Protection : Safety glasses with side-shields (frame goggles)
 Ignition : When using, do not eat, drink or smote
 Industrial hygiene : Local exhaust and general room ventilation are both essential to prevent accumulation of flammable vapor or dust moisture.

Due to the coloring properties of the product closed work clothes should be used, to avoid stains during manipulation

9. Physical and chemical properties

| | |
|--------------------------------|------------------------------------|
| Product | : Procion MX Dye 004 Lemon Yellow |
| C. I. Name | : Reactive Yellow 86 |
| CAS No. | : 70865-29-1 |
| Chemical family | : Reactive Dyes |
| Appearance | : Ranges from Yellow to Dark Brown |
| Physical state | : Powder |
| Odor | : Odorless |
| PH Value | : (4.5 – 6.5) |
| Initial boiling point (°c) | : No data available |
| Density (Kg / m3) | : 600 – 800 |
| Vapor Pressure (hpa) | : Not applicable |
| Solubility in water (g/l) | : > 100 g/l (25°C) |
| Flash point (°c) | : Not applicable |
| Auto ignition Temperature (°c) | : No data available |
| Explosion limits- Lower (%) | : No data available |
| Explosion limits – Upper (%) | : No data available |

10. Stability and reactivity

| | |
|-------------------------|--|
| Hazardous Decomposition | : On exposure to high temperature, may decompose, releasing toxic vapors |
| Hazardous Reactions | : Stable |
| Hazardous Properties | : None under normal conditions |
| Materials to avoid | : Strong reducing agents, Oxidizing agent |

11. Toxicological information

| | |
|--------------------------------|----------------------------------|
| Rat Oral LD 50 (mg/kg) | : > 5000 |
| Rabbit Dermal LD 50 (mg/kg) | : No data available |
| Rat Inhalation LC 50 (mg/l/4h) | : No data available |
| Dermal Irritation (rabbit) | : not an irritant |
| Eyes irritation | : Slightly irritant |
| Mutagenic effects | : No mutagenic effects reported. |
| Corrosivity | : None. |

12. Ecological information

L. ides LC 50 (mg/l) : 1000 – 48h
WGK class (Germany) : No data available
Biodegradation (%) : No data available
AOX : 0

13. Disposal considerations

Disposal : Dispose in a safe manner in accordance with local / national regulations.
Completely empty contents of drums before discarding.

14. Transport information

Not classified as hazardous under transport regulations.

15. Regulatory information

Regulations of the European union (Labeling) / National legislation/Regulations
The product does not require a hazard warning label in accordance with EC Directives.

16. Other information

Recommended uses: Dyes of this type can cause respiratory restrictions sensitization in some individuals and it is advisable to avoid breathing aerosol and dust persons who suffer from asthmatic or breathing problems should not handle this dyes. Recipients of our product must take responsibility for observing existing laws and regulations.



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Safety Data Sheet (SDS)

Revised Date : 5/6/2015
Product : Procion MX Dye 150 Jet Black
C. I. Name : Black
Identification of the product : Synthetic Organic Dyes

1. Substance/preparation and company identification

Company: Rupert, Gibbon & Spider, Inc. 1147 Healdsburg Avenue Healdsburg, CA 95448
Tel: 800-442-0455 service@jacquardproducts.com

2. Composition/information on ingredients

Substance name C.A.S. No. : NA

3. Hazard Identification

May cause irritation of skin and eyes.
May cause sensitization by inhalation and skin contact.
No particular hazards known.

4. First-aid measures

General information : Remove contaminated clothing immediately and dispose off safely.
After inhalation : Remove the casualty into fresh air and keep him calm.
After contact with skin : In case of contact with skin wash off immediately with soap and plenty of water
After contact with eyes : In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

5. Fire-fighting measures

Suitable extinguishing media : Water spray jet
Foam
Carbon dioxide
Dry powder

6. Accidental release measures

Methods for cleaning up / taking up
Pick up mechanically, dilute remaining rest with water & pick up with absorbent material
(sawdust, sand, universal binder)
When picked up, treat material as prescribed under heading " Disposal ".

7. Handling and storage

Handling : Advice on protection against fire and explosion keep away from sources of ignition – avoid smoking
Storage : Advice on storage compatibility. Do not store with Alkalis
Further information on storage conditions
Storage period : Keep container tightly closed in dry place



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8. Exposure controls and personal protection

- General protective measures
- Avoid contact with eyes and skin
- Do not inhale dust
- Hygiene measures
- Keep away from foodstuffs and beverages
- Do not eat, drink or smoke during work time
- Remove soiled or soaked clothing immediately
- Clean skin thoroughly after work : apply skin cream
- During use, provide suitable ventilation
- Personal protective equipment :
- Respiratory protection : Dust mask
- Hand protection : Gloves
- Eye protection : safety glasses

9. Physical and chemical properties

| | |
|----------------------------|------------------------------------|
| Product | : Procion MX Dye 150 Jet Black |
| C. I. Name | : Black |
| CAS No. | : NA |
| Chemical family | : Reactive Dyes |
| Appearance | : Ranges from Yellow to Dark Brown |
| Odor | : Odorless |
| Molecular Weight | : 250 |
| Solubility in water (20°C) | : > 100 g/l |
| Ph value (20°C) | : 6 – 8 (at 10 g/l) |
| Bulk density | : 600 to 800 kgs. |
| Self ignition temp | : > 240 °C |
| Boiling point (0C) | : Not applicable |
| Melting point (0C) | : Above 250 |
| Flash Point (0C) | : 250°C |
| Flammability | : Non Flammable |

10. Stability and reactivity

| | |
|----------------------------------|-------------------------|
| Thermal decomposition | : > 190 °C |
| Hazardous reactions | : Reaction with alkalis |
| Hazardous decomposition products | : Unknown |

11. Toxicological information

| | |
|-------------------------|--|
| Acute oral toxicity | : Oral Rat LD50 => 2,000 mg/kg |
| Irritant effect on skin | : Slightly irritant |
| Irritant effect on eyes | : Slightly irritant |
| Sensitization | : may cause sensitization by inhalation and skin contact. |
| Mutagenic effects | : No mutagenic effects reported. |
| Corrosivity | : None. |
| Further information | : Persons with respiratory tract allergies Should avoid direct contact with reactive dyes |



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12. Ecological information Persistence and degradability

Biodegradability : 10 to 25% (static method)
 Fish toxicity (LC₅₀) : 10 to 100 mg/l (48 hours)

13. Disposal considerations

In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and / or with the responsible authority.

Un cleaned packing : Packing that cannot be cleaned should be disposed of as product waste

14. Transport information

Road transport : RID / ADR - Non hazardous goods
 Inland waterways transport : ADNR - Non hazardous goods
 Marine transport : IMDG - Code - Non hazardous goods
 Air transport : ICAO / IATA - Non hazardous goods
 Further information : Not classified as hazardous under transport conditions.
 Protect against moisture, store / load separately from food.

15. Regulatory information (labeling in accordance with EC hazard warning labeling)

| | |
|-----------------------------------|--|
| Hazard symbol | : Xn harmful |
| R phrase | S phrases |
| 36/38 - irritation to eyes & skin | 22 - Do not breathe dust |
| 42/43 - may cause sensitization | 24/25 - Avoid contact with eyes and skin by inhalation and skin contact |

16. Other information

This information is based on our present state of knowledge. It should not therefore be considered as guarantee. Specific properties of the products are described according to their suitability for a particular application. Recipients of our product must take responsibility for observing existing laws and regulations.



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Safety Data Sheet (SDS)

Revised Date : 5/6/2015
Product : Procion MX Dye 068 Turquoise
C. I. Name : Turquoise 140
Identification of the product : Synthetic Organic Dyes

1. Substance/preparation and company identification

Company: Rupert, Gibbon & Spider, Inc. 1147 Healdsburg Avenue Healdsburg, CA 95448
Tel: 800-442-0455 service@jacquardproducts.com

2. Composition/information on ingredients

Substance name C.A.S. No. : NA

3. Hazard identification

May cause irritation of skin and eyes.
May cause sensitization by inhalation and skin contact.
No particular hazards known.

4. First-aid measures

General information : Remove contaminated clothing immediately and dispose off safely.
After inhalation : Remove the casualty into fresh air and keep him calm.
After contact with skin : In case of contact with skin wash off immediately with soap and plenty of water
After contact with eyes : In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

5. Fire-fighting measures

Suitable extinguishing media : Water spray jet
Foam
Carbon dioxide
Dry powder

6. Accidental release measures

Methods for cleaning up / taking up
Pick up mechanically, dilute remaining rest with water & pick up with absorbent material
(sawdust, sand, universal binder)
When picked up, treat material as prescribed under heading " Disposal ".

7. Handling and storage

Handling : Advice on protection against fire and explosion keep away from sources of ignition – avoid smoking
Storage : Advice on storage compatibility. Do not store with Alkalis
Further information on storage conditions
Storage period : Keep container tightly closed in dry place



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8. Exposure controls and personal protection

- General protective measures
- Avoid contact with eyes and skin
- Do not inhale dust
- Hygiene measures
- Keep away from foodstuffs and beverages
- Do not eat, drink or smoke during work time
- Remove soiled or soaked clothing immediately
- Clean skin thoroughly after work : apply skin cream
- During use, provide suitable ventilation
- Personal protective equipment :
- Respiratory protection : Dust mask
- Hand protection : Gloves
- Eye protection : safety glasses

9. Physical and chemical properties

| | |
|-----------------------------|------------------------------------|
| Product | : Procion MX Dye 068 Turquoise |
| C. I. Name | : Turquoise 140 |
| CAS No. | : NA |
| Chemical family | : Reactive Dyes |
| Appearance | : Ranges from Yellow to Dark Brown |
| Odor | : Odorless |
| Molecular Weight | : 250 |
| Solubility in water (20°C): | : > 100 g/l |
| Ph value (20°C) | : 6 – 8 (at 10 g/l) |
| Bulk density | : 600 to 800 kgs. |
| Self ignition temp | : > 240 °C |
| Boiling point (0C) | : Not applicable |
| Melting point (0C) | : Above 250 |
| Flash Point (0C) | : 250°C |
| Flammability | : Non Flammable |

10. Stability and reactivity

| | |
|----------------------------------|-------------------------|
| Thermal decomposition | : > 190 °C |
| Hazardous reactions | : Reaction with alkalis |
| Hazardous decomposition products | : Unknown |

11. Toxicological information

| | |
|-------------------------|--|
| Acute oral toxicity | : Oral Rat LD50 => 2,000 mg/kg |
| Irritant effect on skin | : Slightly irritant |
| Irritant effect on eyes | : Slightly irritant |
| Sensitization | : may cause sensitization by inhalation and skin contact. |
| Mutagenic effects | : No mutagenic effects reported. |
| Corrosivity | : None. |
| Further information | : Persons with respiratory tract allergies Should avoid direct contact with reactive dyes |



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12. Ecological information Persistence and degradability

Biodegradability : 10 to 25% (static method)
 Fish toxicity (LC₅₀) : 10 to 100 mg/l (48 hours)

13. Disposal considerations

In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and / or with the responsible authority.

Un cleaned packing : Packing that cannot be cleaned should be disposed of as product waste

14. Transport information

Road transport : RID / ADR - Non hazardous goods
 Inland waterways transport : ADNR - Non hazardous goods
 Marine transport : IMDG - Code - Non hazardous goods
 Air transport : ICAO / IATA - Non hazardous goods
 Further information : Not classified as hazardous under transport conditions.
 Protect against moisture, store / load separately from food.

15. Regulatory information (labeling in accordance with EC hazard warning labeling)

| | |
|-----------------------------------|--|
| Hazard symbol | : Xn harmful |
| R phrase | S phrases |
| 36/38 - irritation to eyes & skin | 22 - Do not breathe dust |
| 42/43 - may cause sensitization | 24/25 - Avoid contact with eyes and skin by inhalation and skin contact |

16. Other information

This information is based on our present state of knowledge. It should not therefore be considered as guarantee. Specific properties of the products are described according to their suitability for a particular application. Recipients of our product must take responsibility for observing existing laws and regulations.

**Jacquard
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)**

Printing date 07/24/15

Reviewed on 07/24/15

1 Identification

Product identifier

Trade name: Soda Ash

Article number: No other identifiers

CAS Number:

497-19-8

Index number:

011-005-00-2

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

No further relevant information available.

Application of the substance / the mixture Industrial uses/pH modification.

Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

Rupert, Gibbon, & Spider inc

1147 Healdsburg ave

Healdsburg ca 95448

telephone number:

707-433-9577

2 Hazard(s) identification

Classification of the substance or mixture



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Additional information:

There are no other hazards not otherwise classified that have been identified.

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 03/23/2015

Reviewed on 03/23/2015

Trade name: Soda Ash Dense

(Contd. of page 1)

0 percent of the mixture consists of ingredient(s) of unknown toxicity.

Label elements**GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms

GHS07

Signal word Warning**Hazard statements**

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear eye protection / face protection.

P264 Wash thoroughly after handling.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Hazard description:**Classification system:****HMIS Long Term Health Hazard Substances**

Substance is not listed.

Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/Information on ingredients**Chemical characterization: Substances****CAS No. Description**

497-19-8 sodium carbonate

Identification number(s)

EC number: 207-838-8

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 03/23/2015

Reviewed on 03/23/2015

Trade name: Soda Ash Dense

Index number: 011-005-00-2

(Contd. of page 2)

4 First-aid measures**Description of first aid measures****General information:** No special measures required.**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Brush off loose particles from skin.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Information for doctor:**Most important symptoms and effects, both acute and delayed**

Slight irritant effect on skin and mucous membranes.

Irritant to eyes.

Gastric or intestinal disorders when ingested.

Coughing

Danger No further relevant information available.**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures**Extinguishing media****Suitable extinguishing agents:** Use fire fighting measures that suit the environment.**For safety reasons unsuitable extinguishing agents:** None.**Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

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Safety Data Sheet
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Trade name: Soda Ash Dense

(Contd. of page 3)

Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information No further relevant information available.**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Damp down dust with water spray.

Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose contaminated material as waste according to Item 13.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage**Handling:****Precautions for safe handling**

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

Information about protection against explosions and fires: The product is not flammable.**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** Protect from humidity and water.**Information about storage in one common storage facility:**

Store away from foodstuffs.

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Printing date 03/23/2015

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Trade name: Soda Ash Dense

(Contd. of page 4)

Do not store together with acids.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.**Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical systems:** No further data; see item 7.**Control parameters****Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes.

Avoid close or long term contact with the skin.

Do not inhale dust / smoke / mist.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Engineering controls: No further relevant information available.**Breathing equipment:**

Not required under normal conditions of use.

Use suitable respiratory protective device in case of insufficient ventilation.

For spills, respiratory protection may be advisable.

Protection of hands:**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

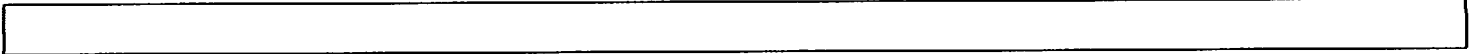
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 03/23/2015

Reviewed on 03/23/2015



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Trade name: Soda Ash Dense

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Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses

Body protection:

Not required under normal conditions of use.

Protection may be required for spills.

Limitation and supervision of exposure into the environment No further relevant information available.

9 Physical and chemical properties**Information on basic physical and chemical properties****General Information****Appearance:**

| | |
|------------------------|-----------------|
| Form: | Granulate |
| Color: | White |
| Odor: | Odorless |
| Odor threshold: | Not determined. |

pH-value at 20 °C (68 °F): 11.3 - 11.6 (1% solution)

Change in condition

Melting point/Melting range: 851.1 °C (1564 °F)

Boiling point/Boiling range: Undetermined.

Flash point: Not applicable.

Flammability (solid, gaseous): Product is not flammable.

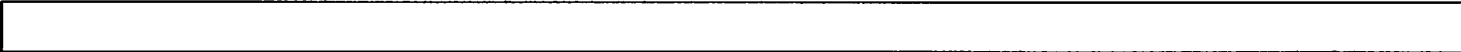
Auto-ignition temperature: Not determined.

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| | |
|---|---|
| Decomposition temperature: | Not determined. |
| Auto igniting: | Not determined. |
| Danger of explosion: | Product does not present an explosion hazard. |
| Explosion limits: | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| Vapor pressure: | Not applicable. |
| Density at 20 °C (68 °F): | 2.53 g/cm ³ (21.113 lbs/gal) |
| Relative density | Not determined. |
| Vapour density | Not applicable. |
| Evaporation rate | Not applicable. |
| Solubility in / Miscibility with Water: | Soluble. |
| Partition coefficient (n-octanol/water): | Not determined. |
| Viscosity: | |
| Dynamic: | Not applicable. |
| Kinematic: | Not applicable. |
| Other information | No further relevant information available. |

10 Stability and reactivity**Reactivity****Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Strong exothermic reaction with acids.

Reacts with halogenated compounds.

Conditions to avoid Avoid acids.**Incompatible materials:** No further relevant information available.

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Hazardous decomposition products: Carbon monoxide and carbon dioxide

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11. Toxicological Information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

497-19-8 sodium carbonate

| | | |
|------|------|------------------|
| Oral | LD50 | 4090 mg/kg (rat) |
|------|------|------------------|

Primary irritant effect:

on the skin: Slight irritant effect on skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Subacute to chronic toxicity: No further relevant information available.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic categories

IARC (International Agency for Research on Cancer)

Substance is not listed.

NTP (National Toxicology Program)

Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

Probable Routes of Exposure

Inhalation.

Eye contact.

Skin contact.

Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes.

Repeated Dose Toxicity: No further relevant information available.

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12 Ecological information**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Ecotoxicological effects:****Remark:** After neutralization a reduction of the harming action may be recognized**Additional ecological information:****General notes:**

Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.**13 Disposal considerations****Waste treatment methods****Recommendation:**

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

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Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

14 Transport information

| | |
|--|-----------------|
| UN-Number DOT, ADN, IMDG, IATA | Not Regulated |
| UN proper shipping name DOT, ADN, IMDG, IATA | Not Regulated |
| Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class | Not Regulated |
| Packing group DOT, IMDG, IATA | Not Regulated |
| Environmental hazards: Marine pollutant: | No |
| Special precautions for user | Not applicable. |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| UN "Model Regulation": | - |

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
United States (USA)
SARA

Section 355 (extremely hazardous substances):

Substance is not listed.

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Section 313 (Specific toxic chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act):

Substance is listed. Proposition 65

(California) Chemicals known to

cause cancer:

Substance is not listed.

Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

Chemicals known to cause developmental toxicity:

Substance is not listed.

Carcinogenic categories

EPA (Environmental Protection Agency)

Substance is not listed.

IARC (International Agency for Research on Cancer)

Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

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

Substance is not listed.

Other regulations, limitations and prohibitive regulations

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

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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.

Date of preparation / last revision 7/24/15

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists EINECS:

European Inventory of Existing Commercial Chemical Substances CAS:

Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A