

# We make a material difference

# **SAFETY DATA SHEET**

1. Identification

Product identifier Dualite E035-FR

Other means of identification

Product code Dualite E035-FR

Recommended use Filler

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Chemical Intermediates Division of Chase Corporation

Address 9 Furman Hall Court

Greenville, SC 29609

**United States** 

**Telephone** General Assitance 1-800-323-4182

E-mail Not available.

**Emergency phone number** Chemtrec (US - 24 hrs) 800-424-9300

Chemtrec (Int'l - 24 hrs) 703-527-3887

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Hazardous to the aquatic environment, Category 3

long-term hazard

OSHA defined hazards Combustible dust

Label elements

Hazard symbol None.

Signal word Warning

**Hazard statement** Harmful to aquatic life with long lasting effects. May form combustible dust concentrations in air.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Avoid release to the environment. Prevent dust accumulation to minimize explosion hazard. Observe good industrial hygiene

practices.

Response Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to

extinguish.

**Storage** Store away from incompatible materials.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** 40% of the mixture consists of component(s) of unknown long-term hazards to the aquatic

environment.

Material name: Dualite E035-FR sps us

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
ALUMINA TRIHYDRATE		21645-51-2	40 - < 50
Isopentane		78-78-4	5 - < 10
Other components below reportable le	vels		50 - < 60

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

## 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact **Eve contact** Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur. **Most important** Dusts may irritate the respiratory tract, skin and eyes.

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

# 5. Fire-fighting measures

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media Suitable extinguishing media

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

carefully to avoid creating airborne dust.

hazardous to health may be formed.

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

equipment/instructions

Specific methods

General fire hazards

Fire fighting

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and

in the presence of an ignition source is a potential dust explosion hazard. During fire, gases

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Use standard firefighting procedures and consider the hazards of other involved materials.

May form combustible dust concentrations in air.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use only non-sparking tools. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. 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 Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

Material name: Dualite E035-FR SDS US 2/7

## 7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust ventilation. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from

incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

### Occupational exposure limits

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Components	Туре	Value	Form
ALUMINA TRIHYDRATE (CAS 21645-51-2)	TWA	1 mg/m3	Respirable fraction.
Isopentane (CAS 78-78-4)	TWA	1000 ppm	
ological limit values	No biological exposure limits noted for the ingredient(s).		

**Biological limit values** 

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. 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.

## Individual protection measures, such as personal protective equipment

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

Skin protection

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

supplier.

Other Wear suitable protective clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or 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** 

Solid. **Physical state** Powder. **Form** Not available. Color Not available. Odor Not available. **Odor threshold** Not available. pН

-255.59 °F (-159.77 °C) estimated Melting point/freezing point 82.04 °F (27.8 °C) estimated

Initial boiling point and boiling

range

Flash point

-60.0 °F (-51.1 °C) estimated

Not available. **Evaporation rate** Flammability (solid, gas) Not available.

Material name: Dualite E035-FR SDS US Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper

(%)

7.6 % estimated

1.4 % estimated

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 111.04 hPa estimated

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 788 °F (420 °C) estimated

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

Other information

**Density** 0.04 g/cm3 **Explosive properties** Not explosive.

Flammability class Flammable IA estimated

Oxidizing properties Not oxidizing.

Percent volatile 5.5 % estimated

Specific gravity 0.04

# 10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from heat, sparks and open flame. Avoid temperatures exceeding the flash point.

Minimize dust generation and accumulation. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Dusts may irritate the respiratory tract, skin and eyes.

### Information on toxicological effects

# **Acute toxicity**

Product	Species	Test Results	
Dualite E035-FR			
<u>Acute</u>			
Inhalation			
LC50	Mouse	18182 mg/l, 1 Hours estimated	
		8182 mg/l, 2 Hours estimated	

Material name: Dualite E035-FR SDS US

 Product
 Species
 Test Results

 Oral
 LD50
 Rat
 12500 mg/kg estimated

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Components Species Test Results

ALUMINA TRIHYDRATE (CAS 21645-51-2)

Acute Oral

LD50 Rat > 5000 mg/kg

Isopentane (CAS 78-78-4)

<u>Acute</u>

Inhalation

LC50 Mouse 1000 mg/l, 1 Hours

450 mg/l, 2 Hours

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

Skin corrosion/irritation Serious eye damage/eye Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

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

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

mutagenic or genotoxic.

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard**Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

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

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

Isopentane 2.3

Mobility in soil No data available.

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

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. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

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

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).

Dualite E035-FR Version #: 01 Issue date: 08-12-2015

## 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.

## 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to No

Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

## 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Isopentane (CAS 78-78-4)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

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)

Isopentane (CAS 78-78-4)

Safe Drinking Water Act Not regulated.

(SDWA)

**US state regulations** 

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

Not listed.

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

(a))

Isopentane (CAS 78-78-4)

**US. Massachusetts RTK - Substance List** 

Isopentane (CAS 78-78-4)

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

Isopentane (CAS 78-78-4)

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

Isopentane (CAS 78-78-4)

Material name: Dualite E035-FR SDS US

#### **US. Rhode Island RTK**

Isopentane (CAS 78-78-4)

#### **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	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>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

**Issue date** 08-12-2015

Version # 01

United States & Puerto Rico

Further information Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the

Toxic Substances Control Act (TSCA) Inventory

Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

HMIS® ratings Health: 0

Flammability: 2 Physical hazard: 0

NFPA ratings Health: 0

Flammability: 2 Instability: 0

**Disclaimer** Chemical Intermediate Division of Chase Corp. 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 offered in this data sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. This material is intended for

industrial use only. No warranty, expressed or implied is made.

Material name: Dualite E035-FR sps us

Yes