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SAFETY DATA SHEET

1. Identification

Product identifier Dualite U010-185W

Other means of identification Not available.

Recommended use Not available.

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 hazardsAcute toxicity, dermalCategory 4Environmental hazardsHazardous to the aquatic environment,Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Harmful in contact with skin. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Avoid release to the environment. Wear protective gloves/protective clothing. Prevent dust

accumulation to minimize explosion hazard.

Response If on skin: Wash with plenty of water. Call a poison center/doctor if you feel unwell. Specific

treatment (see this label). Take off contaminated clothing and wash before reuse.

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 7.5% of the mixture consists of component(s) of unknown acute dermal toxicity. 0.04% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

Material name: Dualite U010-185W 1072 Version #: 01 Issue date: 05-19-2015

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-METHYL BUTANE		78-78-4	5 - < 10
Other components below reportab	le levels		90 - 100

^{*}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.

Skin contact Wash off with soap and water. Get medical advice/attention if you feel unwell. Wash contaminated

clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical advice/attention if you feel unwell. Ingestion Direct contact with eyes may cause temporary irritation.

Most important

symptoms/effects, acute and

delaved

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. 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. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Foam. Carbon dioxide (CO2). Water.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Move containers from fire area if you can do so without risk.

Special protective equipment

and precautions for firefighters

Fire-fighting equipment/instructions

Specific methods

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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.

Methods and materials for containment and cleaning up The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices, Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage. including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Type Components Value **TWA** 2-METHYL BUTANE (CAS 1000 ppm 78-78-4)

No biological exposure limits noted for the ingredient(s). **Biological limit values**

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.

Individual protection measures, such as personal protective equipment

Face shield is recommended. Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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** Yellow Color

Odor Characteristic. **Odor threshold** Not available.

6 - 8 pН

Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

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

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

Not available.

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Vapor pressure Not available. Heavier than air Vapor density

Relative density Solubility(ies)

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

(n-octanol/water)

Auto-ignition temperature Not available. Not available. **Decomposition temperature**

Not available. **Viscosity**

Other information

1.00 g/cm3 estimated **Density** < 10 % (excluding water) Percent volatile

Specific gravity

VOC (Weight %) 140 g/l (excluding water)

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 Hazardous polymerization does not occur.

reactions

Contact with incompatible materials. Conditions to avoid

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard. Prolonged inhalation may be harmful. Inhalation

Skin contact Harmful in contact with skin.

Eye contact Direct contact with eyes may cause temporary irritation. Symptoms related to the Direct contact with eyes may cause temporary irritation.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity Harmful in contact with skin.

Product	Species	Test Results
Dualite U010-185W (CAS Mixture)		
Acute		
Dermal		
LD50	Rabbit	799.6573 mg/kg estimated

LC50 90000 ppm, 4 Hours estimated Mouse 13333.333 mg/l, 1 Hours estimated

6000 mg/l, 2 Hours estimated

Rabbit 92500 ppm, 4 Hours estimated

Oral

Inhalation

LD50 Mouse 50000 mg/kg estimated

> Rabbit 37575.7578 mg/kg estimated Rat 55793.9922 mg/kg estimated

Test Results Components **Species**

2-METHYL BUTANE (CAS 78-78-4)

Acute Inhalation

LC50 Mouse 1000 mg/l, 1 Hours

450 mg/l, 2 Hours

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

Material name: Dualite U010-185W

^{*} Estimates for product may be based on additional component data not shown.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

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 toxicityThis 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 available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

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

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

2-METHYL BUTANE 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 instructionsCollect 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 codeThe 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).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

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

emptied.

14. Transport information

DOT

UN number UN2211

UN proper shipping name

Transport hazard class(es)

Polymeric beads, expandable, evolving flammable vapor

Class 9
Subsidiary risk Label(s) 9
Packing group III

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

Special provisions 32, IB8, IP3, IP7, T1, TP33

Packaging exceptions 155
Packaging non bulk 221
Packaging bulk 221

Material name: Dualite U010-185W

IATA

UN number UN2211

UN proper shipping name Polymeric beads, expandable evolving flammable vapour

Transport hazard class(es)

Class 9 Subsidiary risk Ш Packing group **Environmental hazards** No. 9L **ERG Code**

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

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only Allowed.

IMDG

UN2211 **UN** number

UN proper shipping name Transport hazard class(es) POLYMERIC BEADS, EXPANDABLE evolving flammable vapour

9 **Class** Subsidiary risk Ш Packing group

Environmental hazards

Marine pollutant No. F-A. S-I **EmS**

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

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

DOT; IATA; IMDG



15. Regulatory information

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

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

2-METHYL BUTANE (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)

Immediate Hazard - Yes **Hazard categories**

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

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SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Acrylonitrile	107-13-1	100	10000 lbs		
Methacrylonitrile	126-98-7	1000	500 lbs		

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Acrylonitrile	107-13-1	< 0.1	

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)

2-METHYL BUTANE (CAS 78-78-4)

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

2-METHYL BUTANE (CAS 78-78-4)

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

2-METHYL BUTANE (CAS 78-78-4)

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

2-METHYL BUTANE (CAS 78-78-4)

US. Rhode Island RTK

2-METHYL BUTANE (CAS 78-78-4)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Acrylonitrile (CAS 107-13-1) Listed: July 1, 1987

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)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
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
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

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

Issue date 05-19-2015

Version # 01

HMIS® ratings Health: 1

Flammability: 2 Physical hazard: 0

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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).

NFPA ratings

Health: 1 Flammability: 2 Instability: 0

Disclaimer

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.