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SAFETY DATA SHEET

1. Identification

Product identifier Dualite U011-128D

Other means of identification None.

Recommended use Not available.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Chase Corporation Specialty Chemical Intermediates

Address 9 Furman Hall Court Greenville, SC 29609

Greenville, Sc

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 hazardsFlammable solidsCategory 1Health hazardsSerious eye damage/eye irritationCategory 2B

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Flammable solid. Causes eye irritation.

Precautionary statement

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

receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Wash

thoroughly after handling. Wear protective gloves/eye protection/face protection.

Response If in eyes: 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. In case of fire:

Use appropriate media to extinguish.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

Material name: Dualite U011-128D SDS US

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-methylpropane		75-28-5	20 - < 30
Silica		7631-86-9	3 - < 5
Other components below i	reportable levels		70 - < 80
Monomer			
Chemical name	Common name and synonyms	CAS number	%
Acrylonitrile		107-13-1	0.02

^{*}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 attention if irritation develops and persists.

Do not rub eves. Immediately flush eves with plenty of water for at least 15 minutes. Remove Eve contact

contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

Symptoms may be delayed.

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

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

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

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

During fire, gases hazardous to health may be formed.

Specific hazards arising from the chemical Special protective equipment

and precautions for firefighters

Fire fighting

equipment/instructions

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

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

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

Flammable solid.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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.

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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. The product is immiscible with water and will spread on the water surface. 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. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Monomer	Туре	Value	
Acrylonitrile (CAS 107-13-1)	STEL	10 ppm	
	TWA	2 ppm	
US. OSHA Table Z-3 (29 CFR 19 [,]	10.1000)		
Components	Туре	Value	
Silica (CAS 7631-86-9)	TWA	0.8 mg/m3	
		20 mppcf	
US. ACGIH Threshold Limit Valu	ies		
Components	Туре	Value	
2-methylpropane (CAS	STEL	1000 ppm	
75-28-5)		••	
Monomer	Туре	Value	
Acrylonitrile	TWA	2 ppm	
(CAS 107-13-1)			
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
2-methylpropane (CAS 75-28-5)	TWA	1900 mg/m3	
,		800 ppm	
Silica (CAS 7631-86-9)	TWA	6 mg/m3	
Monomer	Туре	Value	
Acrylonitrile (CAS 107-13-1)	Ceiling	10 ppm	
,	TWA	1 ppm	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US - California OELs: Skin designation

Acrylonitrile (CAS 107-13-1) Can be

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Acrylonitrile (CAS 107-13-1) Skin designation applies.

Material name: Dualite U011-128D

US ACGIH Threshold Limit Values: Skin designation

Acrylonitrile (CAS 107-13-1)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Acrylonitrile (CAS 107-13-1)

Can be absorbed through the skin.

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. Provide eyewash station.

Individual protection measures, such as personal protective equipment

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

Skin protection

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

supplier.

Other Wear suitable protective clothing.

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

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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

clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical stateSolid.FormPowder.ColorPale yellowOdorSlight.

Odor threshold Not available.

pH 6 - 9 (10% dispersion)

Melting point/freezing point Not available.

Initial boiling point and boiling Not Applicable

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Flammable solid.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not Applicable

Flammability limit - upper

(%)

Not Applicable

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Material name: Dualite U011-128D sps us

Other information

Density 0.90 g/cm3 estimated

Explosive propertiesNot explosive. Dust explosion hazard. Lowest explosion concentration approximately 65 g/m3

(dried powder).

Oxidizing properties

Not oxidizing.

Percent volatile

Below 3% Moisture

Softening point

167 °F (75 °C) estimated

Specific gravity 0.9 estimated

10. Stability and reactivity

ReactivityThe 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

Conditions to avoid Heat, flames and sparks. Contact with incompatible materials.

Incompatible materialsStrong oxidizing agents. Nitrates. Fluorine. Chlorine.Hazardous decompositionNo hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contactNo adverse effects due to skin contact are expected.

Eye contact Causes eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

Information on toxicological effects

Acute toxicity

Toxicological data

Monomer Species Test Results

Acrylonitrile (CAS 107-13-1)

Acute Oral

LD50 Rat 78 mg/kg

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

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

Serious eye damage/eye

irritation

Causes eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

Germ cell mutagenicityNo 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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Acrylonitrile (CAS 107-13-1) 2B Possibly carcinogenic to humans.

Silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Acrylonitrile (CAS 107-13-1) Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

Acrylonitrile (CAS 107-13-1) Reasonably Anticipated to be a Human Carcinogen.

Material name: Dualite U011-128D

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

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

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

Monomer	Species	Test Results
Acrylonitrile (CAS 107-13-1)		

Aquatic

Crustacea EC50 7.38 mg/l, 48 hours Water flea (Daphnia magna) Fish LC50 Fathead minnow (Pimephales promelas) 6.7 - 15 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2.76 2-methylpropane

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

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

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

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

disposal company.

US RCRA Hazardous Waste U List: Reference

Acrylonitrile (CAS 107-13-1)

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).

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

U009

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

disposal.

14. Transport information

DOT

UN1325 **UN** number

UN proper shipping name Flammable Solid, Organic n.o.s. (polymeric spheres containing isobutane)

Transport hazard class(es)

4.1 Class Subsidiary risk Packing group Ш

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

IATA

UN1325 UN number

UN proper shipping name Transport hazard class(es)

Flammable Solid, Organic n.o.s. (polymeric spheres containing isobutane)

Class 4.1 Subsidiary risk Ш Packing group **Environmental hazards** No.

Material name: Dualite U011-128D 1744 Version #: 02 Revision date: 05-10-2018 Issue date: 01-09-2017

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

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

IMDG

UN number UN1325

UN proper shipping name Flammable Solids, Organic n.o.s. (polymeric spheres containing isobutane)

Transport hazard class(es)

Class 4.1 Subsidiary risk П Packing group **Environmental hazards**

Marine pollutant No. F-A, S-G **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 the IBC Code

Not applicable.

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.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

2-methylpropane (CAS 75-28-5) Listed. Acrylonitrile (CAS 107-13-1) Listed.

SARA 304 Emergency release notification

Acrylonitrile (CAS 107-13-1) 100 LBS OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Acrylonitrile (CAS 107-13-1) Cancer

Central nervous system

Liver

Skin sensitization Skin irritation Respiratory irritation Eye irritation Acute toxicity

Flammability

Material name: Dualite U011-128D

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

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

SARA 302 Extremely hazardous substance

Chemica	l name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)	

Acrylonitrile 107-13-1 100 10000

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

Acrylonitrile (CAS 107-13-1)

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

2-methylpropane (CAS 75-28-5) Acrylonitrile (CAS 107-13-1)

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

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

Inventory name

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

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

(a))

2-methylpropane (CAS 75-28-5) Acrylonitrile (CAS 107-13-1)

International Inventories

Country(s) or region

oountry(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
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)

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

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
 01-09-2017

 Revision date
 05-10-2018

Version # 02 HMIS® ratings Hea

Health: 1 Flammability: 3 Physical hazard: 0

1744 Version #: 02 Revision date: 05-10-2018 Issue date: 01-09-2017

Material name: Dualite U011-128D SDS US

On inventory (yes/no)*

NFPA ratings Health: 1

Flammability: 3 Instability: 0

Disclaimer Chase Corporation Specialty Chemical Intermediates 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.

Revision information Hazard(s) identification: Response

Physical and chemical properties: Explosive properties
Transport Information: Material Transportation Information

GHS: Classification

Material name: Dualite U011-128D SDS US