

SAFETY DATA SHEET HexWeb CR III Aluminum Honeycomb

1. Identification

Product identifier

Product name

HexWeb CR III Aluminum Honeycomb

Product number

20049US-2

Synonyms; trade names

HexWeb CR III Aluminum Core / Standard and Corrugated Hexagonal Core, ACG, Cross-

Core, Flex-Core, Double Flex-Core, Honeycell, Micro-Cell, OX-Core (Over-Expanded),

Rigicell and Tube-Core

Recommended use of the chemical and restrictions on use

Application

Formulated product for Aerospace and Industrial applications

Details of the supplier of the safety data sheet

Supplier

Hexcel Composites 1214 W. Highway 84 Casa Grande

AZ 85222 USA

Tel: ++520 836 8761 Tel: ++888 611 4038

Contact Person

11711 Dublin Blvd, Dublin, California, USA. ++925 551 4900

Emergency telephone number

Emergency telephone

To be used only for advice on chemical emergencies, spillages, fires or First Aid:

For emergencies in US/Canada: CHEMTREC - 800 424 9300

For emergencies in rest of the world: CARECHEM24 - +44 (0) 1235 239 670

2. Hazard(s) identification

Classification of the substance or mixture

OSHA Regulatory Status

This Product is Hazardous under the OSHA Hazard Communication Standard.

Physical hazards

Combustible Dust - USH01

Health hazards

Not Classified

Environmental hazards

Not Classified

Label elements

Signal word

Warning

Hazard statements

USH01 May form combustible dust concentrations in air

Other hazards

Warning! May cause temporary mechanical irritation of the eyes, skin or upper respiratory tract. Warning! Dust generated from machining, grinding or sanding the product may be combustible and could result in fire and/or explosion should the necessary dust concentration in air and ignition source be present.

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Hazards not otherwise classified (HNOC)

Fine dust clouds may form explosive mixtures with air.

3. Composition/information on ingredients

Mixtures

Aluminum, as metal dust

60-100%

CAS number: 7429-90-5

Classification
Not Classified

The full text for all hazard statements is displayed in Section 16.

Composition comments

This product and its components are considered an Article with no intentional release.

4. First-aid measures

Description of first aid measures

Inhalation With any sign of respiratory distress, affected persons should be taken into fresh air, and

made to rest while medical attention is sought.

Ingestion If dust from product is ingested, immediately rinse mouth repeatedly with water. If swallowing

has occurred, do not induce vomiting. If requested give affected person sips of water. Seek

medical attention.

Skin Contact Dust from product should be washed from the skin using warm soapy water. If irritation

persists, seek medical attention.

Eye contact In case of contact with the product or the cured product dust or particulate, immediately flush

eyes with large amounts of water for at least 15 minutes, keeping the eyelids open. Get

medical attention immediately.

Most important symptoms and effects, both acute and delayed

Inhalation Inhalation of dust during cutting, grinding or sanding operations involving this product may

cause irritation of the respiratory tract.

Skin contact Dust may cause slight irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

5.Fire-fighting measures

Extinguishing media

media.

Unsuitable extinguishing

media

Do not use water or halogenated extinguishing media.

Special hazards arising from the substance or mixture

Specific hazards Handling practices for machining aluminum materials must be in accordance with NFPA 651.

Dust or particulate from machining, grinding or sawing the product may present a fire or explosion hazard when dispersed and ignited in air. The reaction of aluminum dust or

particulate with water produces hydrogen, which is highly flammable.

Advice for firefighters

Revision: 0 Revision date: 5/1/2015

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Special protective equipment Use air-supplied respirator, gloves and protective goggles.

for firefighters

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

No special precautions required.

Environmental precautions

Environmental precautions

Due to the physical nature of this product, environmental release to drains and water courses

is not possible.

Methods and material for containment and cleaning up

Methods for cleaning up

Clean up spillages of dust using specifically designed vacuum cleaner which is safe for this operation. If sweeping is necessary gentle movements limiting the formation of dust clouds should be used. Do not use plastic bristles or material likely to generate significant static electrical charges.

Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions

No specific recommendations.

Conditions for safe storage, including any incompatibilities

Storage precautions

Keep container tightly closed and dry.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): 1 mg/m3 metal, dust and fume A4

A4: Not Classifiable as a Human Carcinogen.

Exposure controls

Protective equipment









Appropriate engineering controls

Use local exhaust sufficient to control the dust or particulate generated when machining, grinding or sawing the product. Ventilation must be in accordance with NFPA 651. If exhaust ventilation is not available or is inadequate, use a NIOSH approved dust respirator.

Eye/face protection

The following protection should be worn: Chemical splash goggles.

Hand protection

Use protective gloves.

Other skin and body

protection

Ensure forearms are protected by use of gloves with long gauntlet, disposable sleeves or long sleeve overalls.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection

Local exhaust ventilation should be used or an approved respirator worn where dust from

machining may arise.

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9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Dull, Silver-gray foil with a red to brown corrosion-resistant coating applied, made into

honeycomb core, with no distinctive odor.

Color Metallic

Odor Odorless.

Odor threshold Not relevant due to the physical form of this product.

pH Not relevant due to the physical form of this product.

Melting point 1220F / 660C Aluminum

Initial boiling point and range Not relevant due to the physical form of this product.

Flash point Not relevant due to the physical form of this product.

Evaporation rate Not relevant due to the physical form of this product.

Vapour pressure Not relevant due to the physical form of this product.

Vapour density Not relevant due to the physical form of this product.

Relative density Not relevant due to the physical form of this product.

Solubility(ies) Not relevant due to the physical form of this product.

Auto-ignition temperature Not relevant due to the physical form of this product.

Explosive properties Not classified as explosive but dust or airborne filaments could induce explosion in high

voltage equipments by short circuit.

Oxidising properties Does not meet the criteria for classification as oxidizing.

10. Stability and reactivity

Stability Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous

reactions

Handling practices for machining aluminum materials must be in accordance with NFPA 651. Dust or particulate from machining, grinding or sawing the product may present a fire or explosion hazard when dispersed and ignited in air. The reaction of aluminum dust or

particulate with water produces hydrogen, which is highly flammable.

Conditions to avoid Avoid dust close to ignition sources.

Materials to avoid Avoid contact of aluminium dust with water, halogen acids, halogenated solvents, ammonium

nitrate or other oxidising agents.

Hazardous decomposition

products

The products of combustion and decomposition depend on other materials present in the fire and the actual conditions of the fire. Component information says that burning should

produce unidentified gases and vapors that may be toxic. Exposure could result in metal

fume fever. Avoid inhalation.

11. Toxicological information

Information on toxicological effects

Toxicological effects There is no toxicological data for the final product.

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General information Dust generated during machining operations may cause mechanical irritation of eyes and

skin.

Inhalation Dust from machining, grinding or sawing the product may cause irritation to the respiratory

tract.

Skin Contact Dust or particulate from the product or from machining, grinding or sawing the product may

cause mechanical irritation, sensitization, dermatitis.

Eye contact Dust or particulate from the product or from machining, grinding or sawing the product may

cause mechanical irritation.

Medical considerations Preexisting eye, skin or respiratory disorders may be aggravated by contact and/or exposure

to the product, the vapor or fumes generated from heating the product or to the dust or

particulate from machining, grinding or sawing the cured product.

12. Ecological Information

Ecotoxicity No ecological data has been determined on the total product.

Toxicity

Toxicity Not regarded as dangerous for the environment.

Persistance and degradability

Persistence and degradability Not relevant due to the physical form of this product.

Bioaccumulative potential

Bio-Accumulative Potential Not relevant due to the physical form of this product.

Mobility in soil

Mobility Not relevant due to the physical form of this product.

13. Disposal considerations

Waste treatment methods

General information Materials for disposal should be placed in appropriate sealed containers to avoid potential

human and environmental exposure. It is the responsibility of the generator to comply with all federal, state, provincial and local laws and regulations. We recommend that you contact an appropriate waste disposal contractor and environmental agency for relevant laws and regulations. Under the U.S., Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the product to determine at the time of disposal, whether the

product meets relevant waste classification and to assure proper disposal.

Disposal methods Reuse or recycle products wherever possible.

14. Transport information

This Product is not dangerous to transport.

UN Number

General

This product is not dangerous to transport.

UN proper shipping name

This product is not dangerous to transport.

Transport hazard class(es)

This product is not dangerous to transport.

HexWeb CR III Aluminum Honeycomb

Packing group

This product is not dangerous to transport.

Environmental hazards

Environmentally Hazardous Substance

No.

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Not listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

Not listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Not listed.

SARA 313 Emission Reporting

Not listed

RCRA

RCRA Information: Currently, the product is not listed in the federal hazardous waste regulation 40 CFR, Part 261.33, paragraphs (E) or (F), ie. chemical products that are considered hazardous if they become waste. State or local hazardous waste regulations may also apply if they are different from the federal regulation. It is the responsibility of the user of the product to determine at the time of disposal, whether the product meets relevant waste classification and to assure proper disposal.

SARA (311/312) Hazard Categories

None.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Inventories

US - TSCA

This product is an article as defined by TSCA and is not required to be listed in the TSCA inventory.

US - TSCA 12(b) Export Notification

No.

16. Other information

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Abbreviations and acronyms used in the safety data sheet

ACGIH American Conference of Industrial Hygienists ATE Acute Toxicity Estimate CAS# Chemical Abstracts Service Number CERCLA Comprehensive Environmental Response, Compensation, and Liability Act DOT Department of Transportation EmS Emergency Response Procedures for Ships Carrying Dangerous Goods EPA Environmental Protection Agency GHS Global Harmonized System HMIS Hazardous Materials Identification System, IATA International Air Transport Association ICAO International Civil Aviation Organization IMDG International Maritime Dangerous Goods Kow Octanol-water partition coefficient LC50 Lethal concentration to 50% of a test population LD50 Lethal dose to 50% of a test population n.o.s. Not otherwise specified OSHA Occupational Safety and Health Administration PBT Persistent, Bioaccumulative and Toxic substance PNEC Predicted No Effect Concentration PPE Personal Protection Equipment RCRA Resource Conservation and Recovery Act SADT Self-accelerating decomposition temperature SARA Superfund Admendments and Reauthorization Act STOT Specific Target Organ Toxicity (STOT) RE Repeated Exposure (STOT) SE Single Exposure TSCA Toxic Substance Control Act UN United Nations VOC Volatile Organic Compound WHMIS Workplace Hazardous Materials Information System

Issued by

U.S.A. Product Stewardship department

Revision date

5/1/2015

Revision

0

Hazard statements in full

USH01 May form combustible dust concentrations in air

ACA HMIS Health rating.

Slight hazard. (1)

ACA HMIS Physical hazard

Normally stable. (0)

rating.

ACA HMIS Personal

protection rating.

F

ACA HMIS Flammability

,

rating.

Will not burn. (0)

Wherever such words or phrases as "hazardous," "toxic," "carcinogen," etc. appear herein, they are used as a defined or described under state employee right-to-know laws, Federal OSHA laws or the direct sources for these lawssuch as the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), etc. The use of such words or phrases should not be taken to mean that we deem or imply any substance or exposure to be toxic, hazardous or otherwise harmful. Any exposure can only be understood within the entire context of its occurrence, which includes such factors as the substance's characteristics as defined in the SDS, amount and duration of exposures, other chemicals present and preexistingindividual differences in response to the exposure. The data provided in this SDS is based on the information received from our raw material suppliers and other sources believed to be reliable. We are supplying you this data solely in compliance with the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200 and the Federal and State laws as described in Section 15: Regulatory Information. The information contained in this SDS is proprietary and confidential to HexcelCorporation. This SDS and the information in it are not to be used for purposes other than compliance with the Federal OSHA Hazard Communication Standard. If you have received this SDS from any other source than Hexcel Corporation or its authorized agent, the information contained in it may have been modified from the original document and it may not be the most current revision. Liability, if any, for use of this product is limited to the terms contained in our sale terms and conditions. We do not in any way warrant (expressed or implied, including any implied warranty for merchantability or fitness for a particular purpose) the data contained or the product described in this SDS. Additionally, we do not warrant that the product will not infringe any patent or other proprietary or property rights of others.

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