

This Safety Data Sheet complies with Annex II of 830/2015 amending EC No. 1907/2006, CLP directive 1272/2008, also in accordance with ISO 11014-1 and ANSI Z400.1

STOODY 110-0

2018-01-14 Issued: 2018

172-031

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

STOODY 110-0

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

Product type

Composite Wires for Open Arc, Gas Metal Arc, and Submerged Arc Welding

1145,26000, 11424400, 11345000, 11000300,

1.3. Details of the supplier of the safety data sheet

11143400, 11140900.

SDS created by

TDS Team

Supplier

Stoody Company

Street address

5557 Nashville Road Bowling Green, KY 42101

United States

Telephone

+ 1 270-781-9777

Fax

+ 1 270-782-9237

Web site

www.stoody.com

1.4. Emergency telephone number

Emergency phone number

(800) 424-9300 (CHEMETREC), CHEMTREC (International): +1 703-527-3887

Available outside office hours

No

Other

Classification(s): Not specified by AWS

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The product is not classified

2.2. Label elements

The product do not require labeling



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2.3. Other hazards

Welding fumes and gases cannot be classified simply. The composition and quantity of both are dependent upon the metal being welded, the process, procedure, and electrodes used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coating on the metal being welded (such as paint, plating, or galvanizing), the number of welders and the volur work area, the quality and the amount of ventilation, the position of the welder's head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from cleaning and degreasing activities). When the electrode is consumed, the fume and gas decomposition products generated are different in percent and from the ingredients listed in Section 3. Fumes and gas decomposition products that evolve from welding activity and not the ingredients in the electrode, are important. The concentration of a given fume or gas component may decrease or increase by many times the original concentration in the electrode. Also, new compounds not in the electrodes may form from welding activity. Decomposition products of normal operation include those originating from the volatilization, reaction, or oxidation of the materials shown in Section 3, plus those from the base metal coatings, etc. as noted above. Reasonably expected decomposition products from normal use of these products include a complex set of oxides of materials listed in Section 3, as well as carbon monoxide, carbon dioxide, ozone and nitrogen oxides. The exposure limits for exposure to chromium, nickel, manganese, cobalt, and/or hexavalent chrome may be reached before the general limit for welding fumes (5 mg/m3) is reached. The recommended way to determine the composition and quantity of fumes and gases to which workers are exposed is to take an air sample in the welder's helmet (if worn) or in the worker's breathing zone. See ANSI/AWS F1.1 "Method for Sampling Airborne Particles Generated by Weldir and Allied Processes" and "Characterization of Arc Welding Fume" available from the American Welding Society, 8669 NW 36 #130, Miami, FL 33

Other

Emergency Overview: This product is not considered hazardous as provided. Gloves should be worn when handling to prevent contaminating ha with product dust. Avoid inhalation of dust and eye contact with this product. When this product is used in a welding process, the most important hazards are welding fumes, heat, radiation and electric shock.



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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No.	Concentration	Classification	R-phrase H-phrase
IRON	7439-89-6 231-096-4 Registered	60 - 70%	-	-
Chromium*	7440-47-3 231-157-5 -	10 - 18%	-	-
Manganese	7439-96-5 231-105-1	13 - 18%	-	-
Nicke!	7440-02-0 231-130-8	0,5 - 4%	- Carc. 2, Skin Sens. 1, Repr. 2	- H317, H351, H372
Titanium oxide**	13463-67-7 236-675-5 -	<4%	-	-
Fluorides	7789-75-5 232-188-7 -	<3%	-	-
Magnesium carbonate	546-93-0 208-915-9 -	<2%	-	-
Silicon	7440-21-3 231-130-8 -	0,2 - 1%	-	-

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
If breathing has stopped, perform artificial respiration and obtain medical assistance immediately! If breathing is difficult, provide fresh air and call physician.

Skin contact
For skin burns from arc radiation, promptly flush with cold water. Get medical attention for burns or irritathat persist. To remove dust or particles wash with mild soap and water.

Eye contact

For radiation burns due to arc flash, see physician. To remove dusts or fumes flush with water for at lea fifteen minutes. If irritation persists, obtain medical assistance.

4.2. Most important symptoms and effects, both acute and delayed

Not applicable

4.3. Indication of any immediate medical attention and special treatment needed

Not applicable



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Other

Electric shock: Disconnect and turn off the power. Use a nonconductive material to pull victim away from contact with live parts or wires. If not breathing, begin artificial respiration, preferably mouth-to-mouth. If no detectable pulse, begin CPR Call a physician immediately. General: Move to fresh air and call for medical aid.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Follow all Hot Work procedures. Welding arcs and sparks can ignite combustible and flammable mate Use the extinguishing media recommended for the burning materials and fire situation such as water, alcohol-resistant foam, dry chemical or CO2 etc

5.2. Special hazards arising from the substance or mixture

Welding arcs and sparks can ignite combustible and flammable materials. Welding activity can produce oxides, manganese and manganese oxides, and iron oxides. See American National Standard Z49.1: Safety in Welding and Cutting published by the AWS.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus as fumes or vapors may be harmful.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear hand, head, eyes, ear and body protection like welders gloves, helmet or face shield with filter lens, safety boots, apron, arm and shoulder protection. Keep protective clothing clean and dry. Use special care when welding painted or coated steels since hazardous substances from the coating may be emitted.

6.2. Environmental precautions

Refer to Section 13.

6.3. Methods and material for containment and cleaning up

Solid objects may be picked up and placed into a container. Liquids or pastes should be scooped up and placed into a container. Wear proper protective equipment while handling these materials. Do not discard as refuse. Ensure collected materials are placed in appropriate containers, particularly if still hot.

6.4. Reference to other sections

Refer to section 8/13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Handle with care to avoid stings and cuts. Wear gloves when handling welding consumables. Avoid exposure to dust. Do not ingest. Some individuals can develop an allergic reaction to certain materials. Retain all warning and identity labels.



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7.2. Conditions for safe storage, including any incompatibilities

Keep separate from chemical substances like acids and strong bases, which could cause chemical reactions.

7.3. Specific end use(s)

Not applicable

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

Use industrial hygiene monitoring equipment to ensure that exposure does not exceed applicable natic exposure limits. The following limits can be used as guidance. Unless noted, all values are for 8 hour t weighted averages (TWA). For information about welding fume analysis refer to Section 10.

National occupational exposure

Ingredient	CAS no.	EC N o.	Expos e limit mg/m: pm		xpos t	rt-term e sure limi n3-ppm	osui	ng exp re limit n3-pp	Remark	Sou rce
Manganes e	7439- 96-5	231-1 05-1	-	-	_	-	5	-	as Mn (metal and fum e)	OS HA
Silicon	7440- 21-3	231-1 30-8	15	-	-	-	-	-	Total dust	OS HA
Silicon	7440- 21-3	231-1 30-8	5	-	-	-	-	-	respirable fraction	OS HA
Chromium *	7440- 47-3	231-1 57-5	1	-	-	-	-	-	as metal	OS HA
Chromium *	7440- 47-3	231-1 57-5	0,5	-	-	-	-	-	as Cr(Cr(II) and Cr(II I) inorganic compds)	OS HA
Chromium *	7440- 47-3	231-1 57-5	0,005	-	-	-	•	-	as Cr(VI)(water sol. a nd insol. inorganic co mpds)	OS HA
Titanium o xide**	1346 3-67- 7	236-6 75-5	15	-	-	-	-	-	Total dust	OS HA
Fluorides	7789- 75-5	232-1 88-7	2,5	-	-	-	-	-	as F	OS HA
Nickel	7440- 02-0	231-1 30-8	1	-	-	-	-	-	AS Ni	OS HA
IRON	7439- 89-6	231-0 96-4	-	-	-	-	-	-	NO PEL	OS HA
Magnesiu m carbona te	546-9 3-0	208-9 15-9	15	-	-	-	-	-	TOTAL DUST	OS HA
Magnesiu m carbona te	546-9 3-0	208-9 15-9	5	,	-	-	-	-	RESPIRABLE FRACTI ON	OS HA



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8.2. Exposure controls

Technical precaution measures

Partition coefficient: n-octanol /

Avoid exposure to welding fumes, radiation, spatter, electric shock, heated materials and dust.

Respiratory protection

Ensure sufficient ventilation, local exhaust, or both, to keep welding fumes and gases from breathing zo and general area.

Other

Engineering measures: Keep working place and protective clothing clean and dry.

Train welders to avoid contact with live electrical parts and insulate conductive parts. Check condition of protective clothing and equipment on a regular basis.

EU Specification EN 12477: Gloves for Welders Type A. For eye protection, use a welder's helmet compliant to EN 379 with filter shade 9 or great Clothing should meet Class 2 requirements.

Ventilation

Use respirator or air supplied respirator when welding or brazing in a confined space, or where local ex or ventilation is not sufficient to keep exposure values within safe limits.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical	and chemical properties	
Appearance	Cored wire, color grey/black, with core containing	solid metal and non-metal particles.
Appearance, colour	Not applicable	
Appearance, physical state	Not applicable	
Auto-ignition temperature	Not applicable	
Decomposition temperature	Not applicable	
Evaporation rate	Not applicable	
Explosive properties	Not applicable	
Flammability (solid, gas)	Not applicable	
Flash point:	Not applicable	
Initial boiling point and boiling range	Not applicable	
Melting point	>1000°F (>500°C)	
Melting point / freezing point	Not applicable	
Odour	odourless	
Odour treshold	Not applicable	
Oxidising properties	Not applicable	

Not applicable



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pH value

Not applicable

Relative density

0.18 - 0.33 lb/cu ft. (5 - 9 g/cc)

Solubility

Insoluble in water

Upper / lower flammability or explosive limits

Not applicable

Vapour density

Not applicable

Vapour pressure

Not applicable

Viscosity

Not applicable

9.2. Other information

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

Contact with chemical substances like acids or strong bases could cause generation of gas.

10.2. Chemical stability

Chemical stability

This product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Not applicable

10.4. Conditions to avoid

Conditions to avoid

This product is only intended for production of welding consumables.

10.5. Incompatible materials

Not applicable

10.6. Hazardous decomposition products

Hazardous decomposition products

When this product is used in a welding process, hazardous decomposition products would include tho from the volatilization, reaction or oxidation of the materials listed in Section 3 and those from the base and coating.

The amount of fumes generated from this product varies with welding parameters and dimensions, bur generally no more than 10g/min. Reasonably expected fume constituents of this product would include oxides of metals such as Al, B, C, Ca, Co, Cr, Cu, F, Fe, K, Mn, Mo, N, Na, Nb, O, Si, Ti, V, W, Zr.



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Other

Refer to applicable national exposure limits for fume compounds, including those exposure limits for fume compounds found in Section 8. A significant amount of the chromium in the fumes can be hexavalent chromium, which has a very low exposure limit in some countries. Manganes and nickel also have low exposure limits, in some countries, that may be easily exceeded.

Reasonably expected gaseous products would include carbon oxides, nitrogen oxides and ozone. Air contaminants around the welding area car affected by the welding process and influence the composition and quantity of fumes and gases produced. Fume generation and fume analysis including hexavalent chrome content is available for a range of products and may be obtained by sending a request in writing or sending us an inquiry on the Stoody Company web page (www.stoody.com).

SECTION 11: Toxicological information

Aspiration hazard

LD50 Oral

LD50 Dermal

LC50 Inhalation

No data available

No data available

No data available

No data available

11.1. Information on toxicological e	
Information on toxicological effects	The wire product as sold and distributed is not expected to cause hazardous exposures. During weldin activity, the likely routes of exposure could include ingestion, skin, eyes but most importantly by inhalatic welding fumes and dust. Inhalation of welding fumes and gases can be dangerous to your health. Classification of welding fumes is difficult because of varying base materials, coatings, air contamination and processes. The International Agency for Research on Cancer has classified welding fumes as post carcinogenic to humans (Group 2B).
Acute toxicity	Overexposure to welding fumes may result in symptoms like metal fume fever, dizziness, nausea, dryn irritation of the nose, throat or eyes.
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Genotoxicity	No data available
Carcinogenicity	This product contains or produces a chemical known to the state of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code § 25249.5 et seq.) *This product contains substance(s) that may cause cancer, which is/are classified as Carcinogenic to humans as per IARC. **This product contains substance(s) that may cause cancer, which is/are classified as Possibly carcinogenic to humans as per IARC.
Repeated dose toxicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available



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Other

Long term effect

Overexposure to welding fumes may affect pulmonary function. Overexposure to manganese and manganese compounds above safe exposure limits can cause irreversible damage to the central nerv system, including the brain, symptoms of which may include slurred speech, lethargy, tremor, muscula weakness, psychological disturbances and spastic gait Prolonged inhalation of nickel and chromium compounds above safe exposure limits can cause cancer.

Prolonged inhalation of titanium dioxide above safe exposure limits can cause cancer.

SECTION 12: Ecological information

12.1. Toxicity

. •	
Acute toxicity	No data available
Toxicity.	No data available
Aquatic	No data available
Soil Soil	No data available
Acute fish toxicity	No data available
Acute algae toxicity	No data available
Acute crustacean toxicity	No data available
Chronical toxicity	No data available

12.2 Pareistance and degradability

12.2. Persistence and degradability	/
Persistence and degradability	No data available
Decay/transformation	No data available
12.3. Bioaccumulative potential	•

Bioaccumulative potential No data available

12.4. Mobility in soil

Mobility No data available

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

Other adverse effects

Welding consumables and materials could degrade/weather into components originating from the consumables or from the materials used in the welding process. Avoid exposure to conditions that cou lead to accumulation in soils or groundwater. Nickel powder is harmful for the environment, harmful to aquatic organisms, and may cause long term adverse effects in the aquatic



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Discard any product, residue, disposable container or liner in an environmentally acceptable manner, in full compliance with federal and local regulations. Use recycling procedures if available.

USA RCRA:

Unused product or product residues containing chromium is considered hazardous waste if discarded, RCRA ID Characteri Toxic Hazardous Waste D007.

(https://rcrainfo.epa.gov/rcrainfoweb/action/modules/main/glossary/waste;jsessionid=A98F2456754BC0CE970C52F4E3AA/Residues from welding consumables and processes could degrade and accumulate in soils and groundwater. Welding sla from this product typically contains mainly the following components: Al, B, C, Ca, Co, Cr, Cu, F, Fe, K, Mn, Mo, N, Na, Nb, O, \$V, W, Zr.

SECTION 14: Transport information

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Environmental hazards

Welding rods and wire are not environmentally hazardous according to the criteria of the UN Model Regulations (as reflected in the IMDG Code, ADR, RID and AND) and/or a marine pollutant to the IMDG

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

Other

No international regulations or restrictions are applicable.



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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture



Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establisi European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 or classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of th European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriof Chemicals (REACH)

DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL. of 19 November 2 on waste and repealing certain Directives.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packagi waste.



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Other regulations, limitations and legal regulations

Poland Regulations:

ACT of 25 February 2011 on the chemical substances and their mixtures(OJ # 63, poz. 322).

Regulation of the Minister of Labour and Social Policy of 6 June 2014 on Maximum Permissible Concentration and Intensity of Agents Harmful to Health in the Working Environment (Dz. u. z. 2014, poz

The Act on Waste of 14 December 2012, Journal of Laws of 2013, item 21 with amendments

Act of 13th June 2013 on packaging management and packaging waste (Journal of Laws of 2013, item

Regulation of the Minister of the Environment of 9 December 2014 on waste catalogue (Journal of Laws 2014, item 1923).

Regulation of the Minister of Economy of 21 December 2005. Concerning essential requirements for personal protective equipment (Journal. Laws No. 259, item. 2173).

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful t health in the working environment (the Journal of Laws 2011, no. 33, item 166).

USA Regulations:

USA: This product contains or produces a chemical known to the state of California to cause cancer and defects (or other reproductive harm). (California Health & Safety Code § 25249.5 et seq.)

CERCLA/SARA Title III Reportable Quantities (RQs) and/or Threshold Planning Quantities (TPQs): Proc a solid solution in the form of a solid article. Spills or releases resulting in the loss of any ingredient at above its RQ require immediate notification to the National Response Center and to your Local Emerge Planning Committee.

EPCRA/SARA Title III 313 Toxic Chemicals: The following metallic components are listed as SARA 313 Chemicals" and potential subject to annual SARA 313 reporting. See Section 3 for weight percent.

Manganese: 1.0% de minimis concentration Chromium: 1.0% de minimis concentration Nickel: 0.1% de minimis concentration

Canada: WHMIS classification: Class D; Division 2, Subdivision A

International Inventories:

Australia: The substance(s) in this product is/are in compliance with the inventory requirements of Aust Inventory of Chemical Substances (AICS)

United States EPA Toxic Substance Control Act: All constituents of this product are on the TSCA inventor or are excluded from listing.

Canadian Environmental Protection Act (CEPA): All constituent(s) of this product is/are on the Domestic Substance List (DSL).

15.2. Chemical safety assessment

Chemical safety assessment

Not Available

Other

Read and understand the manufacturer's instructions, your employer's safety practices and the health and safety instructions on the label. Obser any federal and local regulations. Take precautions when welding and protect yourself and others.

WARNING: Welding fumes and gases are hazardous to your health and may damage lungs and other organs. Use adequate ventilation.

ELECTRIC SHOCK can kill. ARC RAYS and SPARKS can injure eyes and burn skin.

Wear correct hand, head, eye and body protection.



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SECTION 16: Other information

Changes to previous revision

This Safety Data Sheet has been revised due to modifications to Sections 1-16.

References to key literature and data sources

Refer to ESAB "Welding and Cutting - Risks and Measures", F52-529 "Precautions and Safe Practices I Electric Welding and Cutting" and F2035 "Precautions and Safe Practices for Gas Welding, Cutting and Heating" available from ESAB, and to: www.esab.com

Phrase meaning

Carc. 2 - Carcinogenicity, hazard category 2

Repr. 2 - Reproductive toxicity, hazard category 2

Skin Sens. 1 - Skin sensitisation, hazard category 1

H317 - May cause an allergic skin reaction.

H351 - Suspected of causing cancer.

H372 - Causes damage to organs through prolonged or repeated exposure.

Other

Additional Information

USA: Contact ESAB at www.esabna.com or 1-800 ESAB-123 if you have any questions about this SDS. American National Standard Z49.1 Safety in Welding and Cutting, ANSI/AWS F1.5 Methods for Sampling Analyzing Gases from Welding and Allied Processes, ANSI/AWS F1.1 "Method for Sampling Airborne Particles Generated by Welding and Allied Processes", AWSF3.2M/F3.2 "Ventilation Guide for Weld Fun 550 North Le Jeune Road, Miami Florida 33135. Safety and Health Fact Sheets available from AWS at

OSHA Publication 2206 (29 C.F.R. 1910), U.S. Government Printing Office, Superintendent of Documen P.O. Box 371954, Pittsburgh, PA 15250-7954

American Conference of Governmental Hygienists (ACGIH), Threshold Limit Values and Biological Exp Indices, 6500 Glenway Ave., Cincinnati, Ohio 45211, USA.

NFPA 51B "Standard for Fire Prevention During Welding, Cutting and Other Hot Work" published by the National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169

UK: WMA Publication 236 and 237, "Hazards from Welding fume", "The arc welder at work, some gener aspects of health and safety".

Germany: Unfallverhütungsvorschrift BGV D1, "Schweißen, Schneiden und verwandte Verfahren".

Canada: CSA Standard CAN/CSA-W117.2-01 "Safety in Welding, Cutting, and Allied Processes".

This product has been classified according to the hazard criteria of the CPR and the SDS contains all o information required by the CPR.

ESAB requests the users of this product to study this Safety Data Sheet (SDS) and become aware of prhazards and safety information. To promote safe use of this product a user should: notify its employees, agents and contractors of the information on this SDS and any product hazards/sa information.furnish this same information to each of its customers for the products

Request such customers to notify employees and customers for the same product hazards and safety information.

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