

1 Identification

- · Product Identifier
- · Trade Name: Ammo Flex, Perfect 90
- · Relevant identified uses of the substance or mixture and uses advised against: Drywall Applications
- · Product Description: Construction Product
- · Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier:
 ClarkDietrich-StraitFlex
 3851 Corporate Center Drive
 O'Fallon, MO, 63368

Fax: 636-300-0414 Straitflex.com

· Emergency telephone number: 1-636-300-1411

2 Hazard(s) Identification

· Classification of the substance or mixture:

The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.

- · Label elements:
- GHS label elements Non-Regulated Material
- · Hazard pictograms: Non-Regulated Material
- · Signal word: Non-Regulated Material
- · Hazard statements: Non-Regulated Material
- · Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

- · Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- · NFPA ratings (scale 0 4)



Health = 0 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0Fire = 0

Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with non-hazardous additions.

· Dangerous Components:		
CAS: 9004-34-6	Cellulose	25-50%
CAS: 65996-61-4	Pulp Cellulose	25-50%
	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2B, H320; Combustible Dust	
CAS: 101-68-8	4,4'-methylenediphenyl diisocyanate	<1%
RTECS: NQ 9350000	Resp. Sens. 1, H334; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	



CAS: 5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate	<1%
	Resp. Sens. 1, H334; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 7631-86-9	Silicon Dioixde	<1%
	♦ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	

· Additional information:

The ingredients of this mixture are considered to be proprietary and are withheld in accordance with paragraph (i) of §1910.1200 of 29 CFR 1910.1200, the OSHA Hazard Communication Standard and U.S. Code of Federal Regulations.

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

The components listed above pose no direct hazard to the end user under normal use and operating conditions, as they are combined and transformed into a solid product.

4 First-Aid Measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Not anticipated under normal use.
- · After skin contact:

Wash with soap and water.

If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water.

If eye irritation occurs, consult a doctor.

- · After swallowing: Not a normal route of entry.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · For safety reasons unsuitable extinguishing agents: No further relevant information.
- · Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- · Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures: Not required.
- · Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up:

Dispose of the collected material according to regulations.

· Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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Reviewed on 02/13/2019

Issue date 02/13/2019

· Protective Action Criteria for Chemicals

PAC-1:		
101-68-8	4,4'-methylenediphenyl diisocyanate	0.45 mg/m ³
7631-86-9	Silicon Dioixde	
· PAC-2:		
101-68-8	4,4'-methylenediphenyl diisocyanate	5 mg/m³
7631-86-9	-9 Silicon Dioixde	
· PAC-3:		
101-68-8	4,4'-methylenediphenyl diisocyanate	55 mg/m³
7631-86-9	Silicon Dioixde	4,500 mg/m ³

7 Handling and Storage

- · Handling
- · Precautions for safe handling: No special measures required.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: Store in a cool, dry place.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- Components with occupational exposure limits:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituents have no known exposure limits.

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9004-34-6 C	ellulose		
PEL	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction		
REL	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction		
TLV	Long-term value: 10 mg/m³		
65996-61-4	65996-61-4 Pulp Cellulose		
ACGIH/TLV	Ceiling limit value: 5 mg/m³		
OSHA/PEL	Ceiling limit value: 15 mg/m³		
101-68-8 4,4	'-methylenediphenyl diisocyanate		
PEL	Ceiling limit value: 0.2 mg/m³, 0.02 ppm		
REL	Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit value: 0.2* mg/m³, 0.02* ppm *10-min		
TLV	Long-term value: 0.051 mg/m³, 0.005 ppm		

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IDLH

7631-86-9 Silicon Dioixde

ACGH Short-term value: 3 mg/m³

Long-term value: 10 mg/m³ Short-term value: 3000 mg/m³

Long-term value: 4 E mg/m³

IDLH: Immediately dangerous to life or health

TWA Short-term value: 6 mg/m³

Long-term value: 4 E mg/m³

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- · Personal protective equipment
- · General protective and hygienic measures: No special measures required.
- Breathing equipment: Not required. Protection of hands: Not required.
- Eye protection:



Safety glasses

· Limitation and supervision of exposure into the environment: None

9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- · General Information

· Appearance:

Form: Formed Strip
Color: White
Odour: Odorless
Odor threshold: Not determined.

• pH-value: Not applicable.

· Change in condition

Melting point/Melting range: Not determined. Boiling point/Boiling range: Not determined.

· Flash point: None

Flammability (solid, gaseous): Not determined.
 Ignition temperature: Not applicable
 Decomposition temperature: Not determined.

· **Auto igniting:** Product is not self-igniting.

Danger of explosion:
 Product does not present an explosion hazard.

· Explosion limits:

Lower:Not determined.Upper:Not determined.Vapor pressure:Not applicable.



· Density:

Relative density:Not determined.Vapor density:Not applicable.Evaporation rate:Not applicable.

· Solubility in / Miscibility with:

Water: Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not applicable. **Kinematic:** Not applicable.

• Other information: No further relevant information available.

10 Stability and Reactivity

- · Reactivity: The product is stable under normal conditions
- · Chemical stability: Stable under normal conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- Information on toxicological effects:
- · Acute toxicity:

· LD/LC50	values tha	t are relevant for classification:
9004-34-6	Cellulose)
Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)
65996-61-	4 Pulp Ce	Ilulose
Inhalative	LC50/4 h	5,800 mg/l (Rat)
101-68-8 4	1,4'-methy	lenediphenyl diisocyanate
Oral	LD50	2,200 mg/kg (Mouse)
Dermal	LD50	>9,400 mg/kg (Rabbit)
Inhalative	LC50/4 h	>1,000 mg/l (Trout)
7631-86-9	Silicon D	ioixde
Oral	LD50	10,000 mg/kg (Rat) (OECD 401)
Dermal	LD50	5,000 mg/kg (Rabbit) (OECD 402)
Inhalative	LC50/4 h	
		Maximum attainable concentration, mortality does not appear.
		10,000 mg/l (Zebra fish) (OECD 203)

- · Primary irritant effect:
- · On the skin: No irritating effect. · On the eye: No irritating effect.

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· Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories:

· IARC (Inte	ernational Agency for Research on Cancer):	
101-68-8	4,4'-methylenediphenyl diisocyanate	3
7631-86-9	Silicon Dioixde	3
· NTP (Natio	onal Toxicology Program):	
None of the	e ingredients are listed.	
· OSHA-Ca	(Occupational Safety & Health Administration):	
None of the	e ingredients are listed.	

12 Ecological Information

- · Toxicity:
- Aquatic toxicity:

 101-68-8 4,4'-methylenediphenyl diisocyanate

 EC50 | >1,000 mg/l (Daphnia)

 7631-86-9 Silicon Dioixde

 EC50 | >1,000 mg/l (Daphnia) (OECD 202)
 - Persistence and degradability: No further relevant information available.
 - · Behavior in environmental systems:
 - · Bioaccumulative potential: No further relevant information available.
 - · Mobility in soil: No further relevant information available.
 - · Additional ecological information:
 - · General notes: Generally not hazardous for water.
 - · Results of PBT and vPvB assessment:
 - · **PBT:** Not applicable.
 - · vPvB: Not applicable.
 - · Other adverse effects: No further relevant information available.

13 Disposal Considerations

- · Waste treatment methods
- · Recommendation:

Smaller quantities can be disposed of with household waste.

Observe all federal, state and local environmental regulations when disposing of this material.

- Uncleaned packaging
- · Recommendation: Disposal must be made according to official regulations.

14 Transport Information

· UN-Number:

· DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material

· UN proper shipping name:

· DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material

(Contd. on page 7)



· Transport hazard class(es):

· DOT, ADR/ADN, ADN, IMDG, IATA

· Class: Non-Regulated Material

· Packing group:

· DOT, ADR/ADN, IMDG, IATA Non-Regulated Material

Environmental hazards: Not applicable.Special precautions for user: Not applicable.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

· UN "Model Regulation": Non-Regulated Material

15 Regulatory Information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture:
- · SARA (Superfund Amendments and Reauthorization):

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· Section 355 (extremely hazardous substances):			
None of the	ingredients are listed.		
· Section 313	(Specific toxic chemical listings):		
101-68-8 4,	4'-methylenediphenyl diisocyanate		
· TSCA (Toxi	c Substances Control Act):		
9004-34-6	Cellulose		
65996-61-4	Pulp Cellulose		
101-68-8	4,4'-methylenediphenyl diisocyanate		
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate		
7631-86-9	Silicon Dioixde		
· TSCA new	TSCA new (21st Century Act): (Substances not listed)		
65996-61-4	Pulp Cellulose		

California Proposition 65:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

New Jersey Right-to-Know List:

9004-34-6 Cellulose

101-68-8 4,4'-methylenediphenyl diisocyanate

· New Jersey Special Hazardous Substance List:

None of the ingredients are listed.

Pennsylvania Right-to-Know List:

9004-34-6 Cellulose

101-68-8 4,4'-methylenediphenyl diisocyanate

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7631-86-9	Silicon Dioixde	
· Pennsylva	nia Special Hazardous Substance List:	
101-68-8	1,4'-methylenediphenyl diisocyanate	Е

· Carcinogenic categories:

· EPA (Envi	ronmental Protection Agency):	
101-68-8	4,4'-methylenediphenyl diisocyanate	D, CBD
TLV (Thre	shold Limit Value established by ACGIH):	
None of the	e ingredients are listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health):		
None of the	e ingredients are listed.	

- · GHS label elements Non-Regulated Material
- · Hazard pictograms: Non-Regulated Material
- · Signal word: Non-Regulated Material
- · Hazard statements: Non-Regulated Material
- · National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision: 02/13/2019 / 2

· Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B

Resp. Sens. 1: Respiratory sensitisation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

* Data compared to the previous version altered.

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