

Safety Data Sheet

NORDOT® Adhesive/Prepolymer #34S-3(Plus)

SDS Revision Date: 05/21/2015

1. Identification

1.1. Product identifier

Product Identity NORDOT® Adhesive/Prepolymer #34S-3(Plus)

Alternate Names Polyisocyanate Resin

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

Intended use See Technical Data Sheet.

Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name Synthetic Surfaces Inc.
P.O. Box 241
2450 Plainfield Avenue, Scotch Plains
NJ 07076-0241

Emergency

CHEMTREC (USA) (800) 424-9300

24 hour Emergency Telephone No. (908) 233-6803

(908) 377-5112

Customer Service: Synthetic Surfaces, Inc (908) 233-6803

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Flam. Liq. 2;H225	Highly Flammable liquid and vapor.
Skin Irrit. 2;H315	Causes skin irritation.
Eye Irrit. 2;H319	Causes serious eye irritation.
Skin Sens. 1;H317	May cause an allergic skin reaction.
Resp. Sens. 1;H334	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Carc. 2;H351	Suspected of causing cancer.
Repr. 2;H361F	Suspected of damaging fertility.
STOT SE 3;H336	May cause drowsiness or dizziness.
STOT RE 2;H373	May cause damage to organs through prolonged or repeated exposure. Specific Target Organs: (Not Available)

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2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Danger

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

H336 May cause drowsiness and dizziness.

H351 Suspected of causing cancer.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

[Prevention]:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P235 Keep cool.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / light / equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P308+313 IF exposed or concerned: Get medical advice / attention.

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- P314 Get Medical advice / attention if you feel unwell.
 P321 Specific treatment (see information on this label).
 P333+313 If skin irritation or a rash occurs: Get medical advice / attention.
 P337+313 If eye irritation persists: Get medical advice / attention.
 P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P341 If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.
 P362 Take off contaminated clothing and wash before reuse.
 P363 Wash contaminated clothing before reuse.
 P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]:

- P403+233 Store in a well ventilated place. Keep container tightly closed.
 P405 Store locked up.

[Disposal]:

- P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Butanone CAS Number: 0000078-93-3	22 – 25	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	[1][2]
Hexane CAS Number: 0000110-54-3	7 – 10	Flam. Liq. 2;H225 Repr. 2;H361f Asp. Tox. 1;H304 STOT RE 2;H373 Skin Irrit. 2;H315 STOT SE 3;H336 Aquatic Chronic 2;H411	[1][2]
Dichloromethane (Methylene chloride) CAS Number: 0000075-09-2	3 – 5	Carc. 2;H351 (> 30%)	[1][2]
Diphenylmethanediisocyanate CAS Number: 0000101-68-8	< 3	Carc. 2;H351 Acute tox. 4;H332 STOT RE 2;H373 Eye Irrit. 2;H319 STOT SE 3;H335 Skin Irrit. 2;H315 Resp. Sens. 1;H334 Skin Sens. 1;H317	[1][2]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

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4. First aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

Overview	Acute: Causes irritation to eyes, respiratory tract and skin. Chronic: May cause serious and possibly irreversible pulmonary injury. Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure. Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.
Inhalation	May cause drowsiness or dizziness. May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Eyes	Causes serious eye irritation.
Skin	May cause an allergic skin reaction. Causes skin irritation.

5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder. Avoid contact with water.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: By fire: CO₂, CO, Oxides of Nitrogen

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Keep cool.

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Ground / bond container and receiving equipment.
Use explosion-proof electrical / ventilating / light / equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Self-contained breathing apparatus. Avoid contact with water.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Avoid open flames or sparks. Provide adequate ventilation. Absorb with sweeping/cleaning compound.

Follow practice for disposal of flammable organic solvent and be in accordance with Federal, State and Local regulations regarding environmental control.

7. Handling and storage

7.1. Precautions for safe handling

Avoid open flames, sparks, static electricity or other sources of ignition. When spraying, use respiratory protection approved for organic vapors, isocyanates and solvents. The TLV for airborne isocyanates is 0.005 ppm. Be vigilant about no smoking, grounding equipment to avoid static electricity, plus avoid other possible sources of ignition.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used.

Examination of lung function should be carried out on a regular basis on persons applying this preparation.

Incompatible materials: Avoid contact with water.

Do not store containers in direct sunlight, hot "desert like" or other high heat conditions as the increase in internal pressure from heat may cause the containers to rupture and/or explode. Provide adequate ventilation.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

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8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000075-09-2	Dichloromethane (Methylene chloride)	OSHA	[1910.1052] TWA 25 ppm ST 125 ppm
		ACGIH	TWA: 25 ppm2B
		NIOSH	Ca
		Supplier	No Established Limit
0000078-93-3	Butanone	OSHA	TWA 200 ppm (590 mg/m3)
		ACGIH	TWA: 50 ppm STEL: 100 ppm
		NIOSH	TWA 200 ppm (590 mg/m3) ST 300 ppm (885 mg/m3)
		Supplier	No Established Limit
0000101-68-8	Diphenylmethanediisocyanate	OSHA	C 0.2 mg/m3 (0.02 ppm)
		ACGIH	TWA: 0.005 ppm Ceiling: 0.01 ppmSkin, S
		NIOSH	TWA 0.05 mg/m3 (0.005 ppm) C 0.2 mg/m3 (0.020 ppm) [10-minute]
		Supplier	No Established Limit
0000110-54-3	Hexane	OSHA	TWA 500 ppm (1800 mg/m3)
		ACGIH	TWA: 20 ppmSkin
		NIOSH	TWA 50 ppm (180 mg/m3)
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000075-09-2	Dichloromethane (Methylene chloride)	OSHA	Select Carcinogen: Yes
		NTP	Known: No; Suspected: Yes
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;
0000078-93-3	Butanone	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000101-68-8	Diphenylmethanediisocyanate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0000110-54-3	Hexane	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

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8.2. Exposure controls

Respiratory	Approved for organic vapors, isocyanates and solvents.
Eyes	Chemical safety goggles
Skin	Wear overalls to keep skin contact to a minimum. Chemically resistant rubber or plastic
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Hazy, amber Liquid
Odor	Solvent odor
Odor threshold	Not Measured
pH	Not Measured
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	Not Measured
Flash Point	-9F. Tag Closed Cup
Evaporation rate (Ether = 1)	Slower than ether
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured
Vapor pressure (Pa)	Not Measured
Vapor Density	Not Measured
Specific Gravity	0.97
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (log Pow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
VOC Content (theoretical)	329 g/l
% Non-Volatile	61 - 65%

9.2. Other information

No other relevant information.

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10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Contact with moisture and other materials which react with isocyanates.

10.5. Incompatible materials

Avoid contact with water.

10.6. Hazardous decomposition products

By fire: CO₂, CO, Oxides of Nitrogen

11. Toxicological information

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Butanone - (78-93-3)	2,737.00, Rat - Category: 5	6,480.00, Rabbit - Category: NA	32.00, Mouse - Category: NA	No data available	No data available
Hexane - (110-54-3)	25,000.00, Rat - Category: NA	3,000.00, Rabbit - Category: 5	No data available	No data available	48,000.00, Rat - Category: NA
Dichloromethane (Methylene chloride) - (75-09-2)	1,600.00, Rat - Category: 4	2,000.00, Rat - Category: 4	52.00, Rat - Category: NA	No data available	No data available
Diphenylmethanediisocyanate - (101-68-8)	4,700.00, Rat - Category: 5	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

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Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	1	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	2	Suspected of causing cancer.
Reproductive toxicity	2	Suspected of damaging fertility.
STOT-single exposure	3	May cause drowsiness or dizziness.
STOT-repeated exposure	2	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Butanone - (78-93-3)	400.00, Cyprinodon variegatus	520.00, Daphnia magna	500.00 (96 hr), Skeletonema costatum
Hexane - (110-54-3)	2.50, Pimephales promelas	3,878.00, Daphnia magna	Not Available
Dichloromethane (Methylene chloride) - (75-09-2)	99.00, Pimephales promelas	1,250.00, Daphnia magna	242.00 (72 hr), Chlamydomonas reinhardtii
Diphenylmethanediisocyanate - (101-68-8)	Not Available	129.70, Daphnia magna	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

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12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

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

14. Transport information

No information provided.

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification B2 D2A

US EPA Tier II Hazards

Fire: Yes

Sudden Release of Pressure: No

Reactive: No

Immediate (Acute): Yes

Delayed (Chronic): Yes

EPCRA 311/312 Chemicals and RQs (lbs):

Butanone (5,000.00)

Dichloromethane (Methylene chloride) (1,000.00)

Diphenylmethanediisocyanate (5,000.00)

Hexane (5,000.00)

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

Dichloromethane (Methylene chloride)

Diphenylmethanediisocyanate

Hexane

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Proposition 65 - Carcinogens (>0.0%):

Dichloromethane (Methylene chloride)

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Butanone

Dichloromethane (Methylene chloride)

Diphenylmethanediisocyanate

Hexane

Pennsylvania RTK Substances (>1%):

Butanone

Dichloromethane (Methylene chloride)

Diphenylmethanediisocyanate

Hexane

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness and dizziness.

H351 Suspected of causing cancer.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

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This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this product or information, the safety of this product, or the hazards related to its use. The information and product are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use thereof.

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March 19, 2020

Tech Sheet #556-A

Technical Data Sheet

NORDOT® Adhesives #34S-3(Plus), #34S-4

Description:

NORDOT® Adhesives #34S-3(Plus) and #34S-4 are one-part, solvent containing, high “green strength” (grab) curing urethanes. They are packaged in closed-head 55-gallon drums and are excellent for **airless spraying** directly from the drum. Both have negligible overspray; minimal airborne adhesive mist; plus water drainable surfaces glued down by them still remain porous. This is achieved because they spray like a “spider web” and do not flow into or clog the pores of the surface when sprayed. This spray property is valuable on porous surfaces such as “popcorn asphalt”, elastic layer, shock pad with holes, etc. Hence, when a total glue-down of a water drainable sub-surface and top surface are bonded together with **NORDOT®** Adhesives #34S-3(Plus) or #34S-4, the whole system remains water permeable. This is a benefit for some synthetic turf athletic fields, rubber/urethane running tracks, playground surfaces, etc. Their extraordinarily high green strength makes them very useful for bonding long seams and total glue-downs, even in adverse weather. They are easy to use and have superior fresh and salt water resistance and exterior durability.

NORDOT® outdoor Adhesives #34S-3(Plus) and #34S-4 have basically the same properties after they cure. The difference is in handling because **NORDOT®** Adhesive #34S-4 has a lower odor; its green strength develops faster and it is *VOC compliant under SCAQMD Rule 1168 for outdoor installations.

Applications:

Used for pre-fabrication and/or installation of synthetic turf athletic fields for field hockey, football, soccer, baseball, and other single- or multi-sport fields. Also used for areas around airport runways to reduce bird traffic; on playgrounds; golf courses; putting greens; tee-lines; golf mats; batting cages and halos; tennis courts; pre-fabricated urethane and rubber surfaces; pools; water slides; lounging and landscape areas; landfills; and on other athletic and recreational surfaces.

Properties (not a specification):

Non-volatile	62% - 64%
Volatile	36% - 38%
VOC (Theoretical)	#34S-3(Plus) = 329 g/l #34S-4 = 87 g/l*
NCO (Isocyanate content)	3.42% - 3.98%
Brookfield Viscosity	500 - 900 cPs (3 @ 20 RPM @ 25°C)
Application temperature range	From below freezing to hot desert temperatures (any temperature in which the installer can work)