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2/27/2020 DS 11/24/2020 JS

Chemistry Report for Case # P-18-0211

General

Submitter:Patcham USA LLC		
Contact: John Massingale	Contact Telephone No.: (561) 578-8110	
TS No.: PDA322		
Chemist: Yakal, Randy	Contractor Support: Y	
PV Init (kg/yr):	PV Max (kg/yr):	
Binding Option:	Exposure-Based Review:	
Manufacture:	Import: 🗹	
Chemical Name		
Trade Name:Pat-Add DA3222		
IES Order: 434022		
Generic Name: Alkaneamine, (aminoalkyl)-, polymer with aziridine and 1,6-diisocyanatohexane, polyethylene glycol alkyl ether- and polyethylene-polypropylene glycol aminoalkyl alkyl ether- and alkenyl benzenated polyethylene glycol Ph ether		

Chemical Structure



Physical Chemical Properties

Molecular Formula:	Molecular Weight:
% < 500:	% < 1000:
MP:	MP Estimate:
BP:	BP Pressure:
BP Estimate:>400	
VP (Torr):	VP Estimate (Torr): <0.000001
Water Solubility (g/L):	Water Soluble Estimate (g/L):Dispersible
Log P:	Log P Estimate:
Physical State — Neat:Liquid	Physical State — Manuf:NK - Imported

Physical State — Processing: Solution, 10% PMN material in solventborne paint

Physical State — End Use: Solid, PMN material entrained in dried/cured coating

Additional Chemical Info

Submitted
data: NAVG MW = by GPC with % less than 500 and % less than
1000; liquid; insoluble in water (est.); density = 1.06 . The submitted
MSDS refers to the PMN material as a "surface active agent" indicating
that the PMN material is dispersible in water. An IR spectrum was not
provided.
Estimated data: high boiling point and negligible vapor
pressure.
Amine FGEW = (worst case, based on
).
SMILES for representative structures are on page 6 of this
report. SMILES for the structure as drawn with all repeating units equal
to one, MW :
SMILES
for reacted with
MW ·
SMILES for
with
where
all repeating units are equal to one, MW
•
SMILES for
reacted with
MW
C

Uses

Consumer Use? No		
Use:	Wetting and dispersing agent for	
	solventborne pigment formulations, paints, and coatings.	
	Amine FGEW =	

Other Uses:	No other uses were found for the PMN material.

Reaction Description



Pollution Prevention Analysis(P2 Analysis:)

P2

Claim: The new chemical substance is a wetting and dispersing agent for pigment formulations, paints, and coatings. The substance will be identified under the trade name Pat-Add DA3222. The substance will be manufactured by the PMN submitter's parent company, Patcham (FZC), and then imported by Patcham USA LLC. (Patcham USA). After import, Patcham USA will distribute the substance to industrial formulators who will produce pigment formulation, paint, and coating products. These formulated products will then be distributed to industrial end users who will use these products in a range of applications to produce final articles.

Pollution Prevention Information

1. The new chemical

substance will be manufactured overseas and then imported by Patcham USA.

There will be no domestic manufacture. This means that no human exposure

or environmental releases will occur involving the manufacture or

processing of the Pat-Add DA3222 at sites controlled by the submitter.

2. The new chemical substance will be imported at relatively

low annual volumes. In addition, the compound will be used at relatively low levels in pigment formulation, paint, and coating products. 3.

There will be no spray applications involving the pigment formulation,

paint, and coating products containing the substance.

4. The new

chemical substance will only be processed and used by industrial companies. No commercial or consumer processors or end users are expected to exist.

5. The pigment formulation, paint, and coating products

containing the new chemical substance will be solventborne products; not waterborne products. Therefore, waste streams involving these formulated products are expected to undergo incineration rather than be released to POTWs.

Analogs

Analogs:

Comments/Telephone Log

Artifact

Update/Upload Time